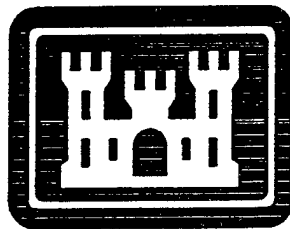


CHILLED WATER STUDY EEAP PROGRAM

FOR
Walter Reed
Army Medical Center



US Army Corps
of Engineers

U.S. ARMY ENGINEER DISTRICT, NORFOLK
CORPS OF ENGINEERS
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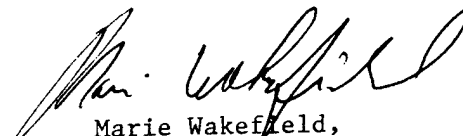


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ATTACHMENT A
Central Chilled Water Plant Logs

19971017 108

DTIC QUALITY INSPECTED 2

CHILLWATER I

DATE	O.A. TEMP.		CHILLERS ON	CHILLWATER PUMPS ON	CHILLWATER LOSS	COMMENTS/OPERATORS INT.
	WB	DB				
12-15-93	45	45	2	3	500 GAL RLM	C.W. RLM
12-16-93	42	47	2	3	900 " RLM	C.W. RLM
12-17-93	35	40	2	3	500 " RLM	C.W. RLM
12-18-93	34	44	2	3	800 " RLM	C.W. RLM
12-19-93	39	45	2	3	1050 RLM	C.W. RLM
12-20-93	40	45	2	3	1500 RLM	C.W. RLM
12-21-93	37°	29°	2	3	500 GAL RLM	RLM
12-22-93	39°	31°	1	2	200 CW	
12-23-93	41°	34°	1	2	500 CW	
12-24-93	37°	33°	1	2	0- CW	
12-25-93	37°	32	1	2	600 CW	
12-26-93	27°	22°	1	2	500 CW	
12-27-93					300 CW	
12-28-93	19	22	1	2	400 CW	NTG
12-29-93	20	23	1	2	1900 CW	NTG
12-30-93	20	23	1	2	1200 CW	NTG
12-31-93	34	38	1	2	200 RLM	NTG
1-1-94	39	41	1	2	400 RLM	NTG
1-2-94	40	46	1	2	300 RLM	NTG
1-3-94	35	31	2	3	100	RS, RS.
1-4-94	31°	32°	2	3	100	RLM, KS
1-5-94	30	36	2	3	160	R.L.M. KS
1-6-94	33	39°	2	3	700 RLM	RLM
1-7-94	34	34	2	3	200	R.L.M. KS
1-8-94	35	36	2	3	100	RS RLM
1-9-94	20	29	1	3	0	RLM
1-10-94	26°	28°	1	3	1900	RLM, KS
1-11-94	30	41	2	3	1600	RLM.
1-12-94	32	34	2	3	2400 RLM	RLM.
1-13-94	31	35	2	3	2500	RLM
1-14-94	30	34	2	3	2500	RLM
1-15-94	49	70	1	2	21,500	RLM
1-16-94	10	17	1	2	32,400	RLM

CHILLWATER LOG

DATE	DB	WB	CHILLERS ON	CHILLWATER PUMPS	CHILLWATER ON	CHILLWATER LOSS	COMMENTS/ OPERATORS' INT.
4-24-94	76	60	3	3	3	1500	Rn
4-25-94	81	64	3	3	3	0	Rn
4-26-94	83	61	3	3	3	700	Rn
4-27-94	83	63	3	3	3	1900	Rn
4-28-94	80	56	3	3	3	1400	Rn
4-29-94	68	80	3	3	3	3000	Rn
4-30-94	79	50	3	3	3	1800	Rn
5-1-94	69	50	3	3	3	4000	Rn
5-2-94	63	30	3	3	3	2000	R.L.M.
5-3-94	62	59	2	3	3	2300	R.L.M.
5-4-94	52	51	2	3	3	800	R.L.M.
5-5-94	70	54	2	3	3	0	R.L.M.
5-6-94	71	61	2	3	3	0	R.L.M.
5-7-94	64	63	2	3	3	0	R.L.M.
5-8-94	65	58	2	3	3	1400	R.L.M.
5-9-94	74	65	3	4	4	1900	R.L.M.
5-10-94	69	59	3	3	3	500	C.W.
5-11-94	73	65	3	3	3	600	C.W.
5-12-94	71	63	3	3	3	1100	C.W.
5-13-94	70	53	3	3	3	600	C.W.
5-14-94	73	62	3	3	3	1800	R.L.M.
5-15-94	84	73	4	4	4	2900	R.L.M.
5-16-94	69	59	3	4	4	500	R.L.M.
5-17-94	56	49	3	3	3	400	R.L.M.
5-18-94	62	52	2	3	3	500	C.W.
5-19-94	60	55	2	3	3	500	C.W.
5-20-94	52	50	2	3	3	400	C.W.
5-21-94	76	59	3	3	3	600	C.W.
5-22-94	83	62	3	3	3	1200	C.W.
5-23-94	87	68	4	4	4	2100	C.W.
5-24-94	86	70	4	4	4	300	C.W.

CHILLWATER LOG

DATE	DB	WB	CHILLERS ON	PUMPS	CHILLWATER ON	CHILLWATER LOSS	COMMENTS/ OPERATORS' INT.
5-25-94	88	80	4			300	UTO
5-26-94	79	71	4			600	UTO
5-27-94	62	56	3			400	
5-28-94	78	53	3			300	WV Coski
5-29-94	78	66	3			300	WV Coski
5-30-94	82	76	3			300	
5-31-94	83	68	4			700	
6-1-94	86	71	4			2600	UTO
6-2-94	72	62	3			3200	UTO
6-3-94	77	67	3			51300	UTO
6-4-94	80	70	3			200	UTO
6-5-94	80	71	3			800	UTO
6-6-94						600	UTO
6-7-94	93	84	4			1200	UTO
6-8-94	94	74	4			11800	R.L.M
6-9-94	74	60	3			1600	R.L.M
6-10-94	83	46	4			1800	R.L.M
6-11-94	74	73	3			500	R.L.M
6-12-94	84	74	4			800	R.L.M
6-13-94	92	80	4			400	R.L.M
6-14-94	97	76	4				R.L.M
6-15-94	87	72	4			2800	
6-16-94	74	74	4			3700	R.L.M
6-17-94	87	75	5			2100	R.L.M
6-18-94	87	76	4			1300	R.L.M
6-19-94						100	R.L.M
6-20-94						400	R.L.M
6-21-94	88	84	5			500	UTO R.L.M
6-22-94	87	85	5			500	UTO
6-23-94	89	87	5			500	UTO
6-24-94	91	88	5			100	UTO

CHILLWATER LOG

DATE	O.A. TEMP.		CHILLERS ON	CHILLWATER PUMPS ON	CHILLWATER LOSS	COMMENTS/OPERATORS INT.
	WB	DB				
6-26-94	84	87	4	4		UTO
6-27-94	78	81	4	4		UTO
6-28-94	85	74	4	4		L.R.S.
6-29-94	67	69	4	4	500 UTO	
6-30-94	70	75	5	5	300 UTO	
7-1-94	84	73	4	4	800 UTO	
7-2-94	59	73	5	5	18 200 UTO	
7-3-94	74	83	5	5	500 UTO	
7-4-94	81	73	5	5	500 UTO	
7-5-94	77	92	5	5	500 UTO	R.L.M
7-6-94	84	97	5	5	500 L.R.S.	R.L.M
7-7-94	84	96	5	5	600 L.R.S.	R.L.M
7-8-94	87	98	5	5	400 L.R.S.	R.L.M
7-9-94	91	98	5	5	400 L.R.S.	R.L.M
7-10-94	71	89	5	5	400 L.R.S.	R.L.M
7-11-94	65	86	5	5	500 L.R.S.	R.L.M
7-14-94	94	90	5	5	400 R.L.M	R.L.M
7-15-94	85	78	5	5	800 R.L.M	R.L.M
7-16-94	84	64	5	5	100 R.L.M	R.L.M
7-17-94	55	44	5	5	400 R.L.M	R.L.M
7-18-94	85	73	5	5	1400 R.L.M	R.L.M
7-19-94	87	93	5	5	400 R.L.M	R.L.M
7-20-94	81	97	5	5	1200	R.L.M
7-21-94	75	84	5	5	500	
7-21-94	83	87	5	5	800	
7-22-94	76	91	5	5	500	
7-23-94	77	88	5	5	500	
7-23-94	76	84	5	5	900	
7-24-94	76	96	5	5	920	
7-25-94	68	79	5	5	700	
7-26-94	72	72	5	5	500	
7-27-94	75	75	5	5	2400	

CHILLWATER LOG

DATE	O.A. TEMP.		CHILLERS ON	CHILLWATER PUMPS ON	CHILLWATER LOSS	COMMENTS/OPERATORS INT.
	WB	DB				
7-28-94	68	77	5	5	500 C.W.	R.L.M.
7-29-94	71	80	5	5	500 C.W.	R.L.M.
7-30-94	75	85	4	4	500 C.W.	R.L.M.
7-31-94	81	78	4	4	500 C.W.	R.L.M.
8-1-94	83	72	5	5	500 C.W.	R.L.M.
8-2-94	82	88	5	5	500 C.W.	R.L.M.
8-3-94	79	91	5	5	500 C.W.	R.L.M.
8-4-94	80	94	4	4	500 C.W.	R.L.M.
8-5-94	81	76	4	4	500 C.W.	R.L.M.
8-6-94	70	80	3	3	500 C.W.	R.L.M.
8-7-94	78	64	3	4	500 C.W.	R.L.M.
8-8-94	78	65	4	4	500 C.W.	R.L.M.
8-9-94	67	86	4	4	500 C.W.	R.L.M.
8-10-94	70	83	4	4	500 C.W.	R.L.M.
8-11-94	73	88	4	4	500 C.W.	R.L.M.
8-12-94	80	91	4	4	500 C.W.	R.L.M.
8-13-94	81	93	4	4	500 C.W.	R.L.M.
8-14-94	79	97	4	4	500 C.W.	R.L.M.
8-15-94	78	78	3	3	500 C.W.	R.L.M.
8-16-94	68	68	3	3	500 C.W.	R.L.M.
8-17-94	78	77	4	4	500 C.W.	R.L.M.
8-18-94	70	78	4	4	500 C.W.	R.L.M.
8-19-94	74	88	4	4	500 C.W.	R.L.M.
8-20-94	75	86	4	4	500 C.W.	R.L.M.
8-21-94	72	74	4	4	500 C.W.	R.L.M.
8-22-94	63	70	4	4	500 C.W.	R.L.M.
8-23-94	59	74	3	3	500 C.W.	R.L.M.
8-24-94	56	76	3	3	500 C.W.	R.L.M.
8-25-94	79	88	4	4	500 C.W.	R.L.M.
8-26-94	78	90	4	4	500 C.W.	R.L.M.
8-27-94	78	86	4	4	500 C.W.	R.L.M.
8-28-94	82	94	4	4	500 C.W.	R.L.M.

CHILLWATER LOG

DATE	DB	WB	CHILLERS ON	CHILLWATER PUMPS ON	CHILLWATER LOSS	COMMENTS/ OPERATORS' INT.
8-30-94	78	62	3	3	400 C.W.	Rm
8-31-94	83	74	4	4	500 R.L.M.	Rm
9-1-94	75	61	4	4	300 R.L.M.	Rm
9-2-94	73	59	3	4	700 R.L.M.	Rm
9-3-94	73	59	3	4	500 L.R.S.	Rm
9-4-94	69	56	3	4	500 L.R.S.	Rm
9-5-94	72	59	3	4	1000 L.R.S.	Rm
9-6-94	71	60	3	4		UTO
9-7-94	78	73	3	5	500 Rm	UTO
9-8-94	78	72	3	4	400 Rm	UTO
9-9-94	81	75	4	4	600 Rm	UTO
9-10-94	74	69	3	4	500 Rm	UTO
9-11-94	70	66	3	4	500 Rm	UTO
9-12-94	72	67	3	4	700 Rm	UTO
9-13-94	83	68	3	4	500 Rm	
9-14-94	87	72	4	4	400 UTO	
9-15-94	83	73	4	4	500 UTO	
9-16-94	84	74	4	4	500 UTO	
9-17-94	74	72	4	4	300 UTO	
9-18-94	77	64	4	4	400 UTO	
9-19-94	70	68	3	4	700 UTO	
9-20-94	76	66	3	3	800 UTO	R.L.M.
9-21-94	74	59	3	4	900 L.R.S.	R.L.M.
9-22-94	68	67	3	4	-0- L.R.S.	R.L.M.
9-23-94	66	63	3	4	200	R.L.M.
9-24-94	77	67	3	4	900 L.R.S.	R.L.M.
9-25-94	71	60	3	3		R.L.M.
9-26-94	82	81	4	4		R.L.M.
9-27-94	77	65	4	4		Rm
9-28-94	69	58	3	3	800 R.L.M.	Rm
9-29-94	67	55	2	2	100 Rm	Rm

CHILLWATER LOG

DATE	DB	WB	CHILLERS ON	CHILLWATER PUMPS ON	CHILLWATER LOSS	COMMENTS/ OPERATORS' INT.
10-1-94	76	67	2	3	2300-0600	
10-2-94	65	59	2	2	300 C.W.	
10-3-94	59	48	2	3	700 C.W.	
10-4-94	61	56	2	2	1200 C.W.	
10-5-94	59	50	2	2	0 C.W.	
10-6-94	61	47	2	2	0 RM	
10-7-94	67	62	2	2	1900 RM	
10-8-94	67	51	2	2	1900 RM	
10-9-94	64	54	3	3	800 RM	
10-10-94	57	45	2	2	1000 RM	
10-11-94	62	50	2	2	400 RM	
10-12-94	64	53	3	4	1600 RM	
10-13-94	62	55	3	4	200 C.W.	
10-14-94	64	53	3	3	3500 C.W.	
10-15-94	61	52	3	3	800 C.W.	
10-16-94	63	53	3	3	500 C.W.	
10-17-94	63	51	3	3	700 C.W.	
10-18-94	710	600	3	3	1300 C.W.	
10-19-94	700	550	3	3	600 C.W.	R.L.M 4-12
10-20-94	730	690	3	3	700 L.R.S	R.L.M 4-12
10-21-94	660	520	3	3	900 L.R.S	R.L.M 4-12
10-22-94	75	62	3	3	1500 L.R.S	R.L.M 4-12
10-23-94	680	670	3	3	1800 L.R.S	R.L.M 4-12
10-24-94	72	36	3	3	1600 L.R.S	R.L.M 4-12
10-25-94	61	46	3	3	1200 L.R.S	R.L.M 4-12
10-26-94	54	49	2	2	1500 L.R.S	R.M
10-27-94	55	46	2	2	400 RM	R.M 128
10-28-94	60	49	2	2	500 RM	R.M 128
10-29-94	67	54	2	2	500 RM	R.M
10-30-94	75	59	3	3	400 RM	R.M
10-31-94	69	65	3	3	500 RM	R.M

CHILLWATER LOG

DATE	DB	WB	CHILLERS ON	CHILLWATER PUMPS ON	CHILLWATER LOSS	COMMENTS/ OPERATORS' INT.
11-1-94	53	48	2	2	500	3/11 C.W. 12/8 RM
11-2-94	58	38	2	2	700	C.W. RM
11-3-94	68	54	3	3	700	C.W. RM
11-4-94	70	63	3	3	800	C.W. RM
11-5-94	72	59	3	3	400	C.W. RM
11-6-94	74	64	3	3	700	C.W. RM
11-7-94	57	44	3	3	600	C.W. RM
11-8-94	66	52	3	3	400	C.W. RM
11-9-94	77	61	2	2	900	C.W. RM
11-10-94	54	44	2	2	800	C.W. RM
11-11-94	50	40	2	2	500	C.W. RM
11-12-94	55	42	3	3	800	C.W. RM
11-13-94	58	56	3	3	800	C.W. RM
11-14-94	68	57	3	3	400	C.W. RM
11-15-94	70	67	3	3	1100	UTO RM
11-16-94	49	45	2	2	500	UTO L.K.S.
11-17-94	52	49	2	2	500	UTO L.K.S.
11-18-94	60	51	3	3	800	UTO L.K.S.
11-19-94	62	54	3	3	1000	UTO L.K.S.
11-20-94	54	51	2	2	1300	UTO L.K.S.
11-21-94	59	55	3	3	1400	UTO L.K.S.
11-22-94	48	37	2	2	800	RM UTO
11-23-94	46	34	2	2	500	RM UTO
11-24-94	45	36	2	2	200	RM UTO
11-25-94	52	41	2	2	500	RM UTO
11-26-94	45	37	2	2	100	RM UTO
11-27-94	35	32	2	2	900	RM UTO
11-28-94	60	57	3	3	1000	RM UTO
11-29-94	50	57	3	3	1300	RM UTO
11-30-94	50	31	3	3		RM UTO
Dec 1 94	47	41	2	2		RM UTO

CHILLWATER LOG

DATE	DB	WB	CHILLERS ON	CHILLWATER PUMPS ON	CHILLWATER LOSS	COMMENTS/ OPERATORS' INT.
12-3-94	53	46	3	3	800	RM
12-3-94	53	48	3	3	800	RM
12-4-94	56	53	3	3	900	RM
12-5-94	66	63	3	3	1000	RM
12-6-94	66	58	3	3	400	RM
12-7-94	68	58	3	3	1000	C.W.
12-8-94	43	36	2	2	700	C.W.
12-9-94	48	41	2	2	500	C.W.
12-10-94	40	39	2	2	800	C.W.
12-11-94	36	24	2	2	800	H.Y.
12-12-94	31	60	2	2	800	H.Y.
12-13-94	40	37	2	2	1200	UTO
12-14-94	45	41	2	2	500	UTO
12-15-94	44	40	2	2	1400	UTO
12-16-94	46	41	2	2	2900	UTO
12-17-94	49	46	2	2	3400	UTO
12-18-94	51	46	2	2	3900	UTO
12-19-94	45	42	2	2	2700	UTO
12-20-94	41	35	2	2	700	H.Y.
12-21-94	52	30	3	3	500	H.Y.
12-21-94	45	40	2	2	400	UTO
12-22-94	46	41	2	2	300	UTO
12-23-94	57	44	3	3	900	UTO
12-24-94	44	43	2	2	900	UTO
12-25-94	52	45	2	2	070	UTO
12-26-94	51	41	2	2	050	UTO
12-27-94	53	42	2	2	800	UTO
12-28-94	57	46	3	3	800	C.W.
12-29-94	43	35	2	2	400	C.W.
12-30-94	38	30	2	2	1200	C.W.
12-31-94	37	36	2	2	500	C.W.
					200	C.W.

UNIT NO.		AIR CONDITIONING LOG																		DATE			
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)		
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED		
				IN	OUT			IN	OUT													IN	OUT
2300	47			112	127																		
2400	48			112	127																		
0100	47			112	127																		
0200	47			112	127																		
0300	47			112	127																		
0400	49			112	127																		
0500	49			112	127																		
0600	48			112	127																		
REMARKS																		MECHANIC'S SIGNATURE					
0700	47			112	127																		
0800	48			112	127																		
0900	48			112	127																		
1000																							
1100																							
1200																							
1300																							
1400																							
REMARKS																		MECHANIC'S SIGNATURE					
1500																							
1600																							
1700																							
1800																							
1900																							
2000																							
2100																							
2200																							
REMARKS																		MECHANIC'S SIGNATURE					
RUNNING TIME																		TONNAGE PER SHIFT					
																		12 TO 6					
																		6 TO 4					
																		4 TO 12					

UNIT NO.		AIR CONDITIONING LOG														DATE						
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)	
	GPM		REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.	GPM		DISCHARGE	COND. TEMP.	WATER TEMP.		OIL					SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED
	SUCTION	DISCHARGE				BEARING TEMP.	LEVEL					TEMP.	PRESSURE									
2300	4.5		F-11	41.5	41.5	12.5		7.5	8.4	X	TSG	7.8	11.7	8.2	9.1						4.2	4.2
2400	4.5		F-11	41.5	41.5	12.5		7.5	8.4	X	TSG	7.8	11.7	8.2	9.0						4.2	4.2
0100	4.5		F-11	41.5	41.5	12.5		7.5	8.4	X	TSG	7.8	11.6	8.2	8.1						4.2	4.2
0200	4.4		F-11	41.5	41.5	11.8		7.6	8.1		TSG	7.8	11.6	8.2	8.9						4.5	4.5
0300	4.4		F-11	41.5	41.5	11.8		7.5	8.0		TSG	7.8	11.5	8.2	8.7						4.5	4.5
0400	4.4		F-11	41.5	41.5	11.8		7.6	8.2		TSG	7.8	11.5	8.2	8.8						4.5	4.5
0500	4.5		F-11	41.5	41.5	11.8		7.6	8.2		TSG	7.8	11.6	8.3	8.8						4.5	4.5
0600	4.5		F-11	41.5	41.5	11.7		7.5	8.1		TSG	7.8	11.6	8.2	8.7						4.5	4.5
REMARKS																MECHANIC'S SIGNATURE		Bot. H. H. H.				
0700	4.5		F-11	41.5	41.5	11.5		7.0	8.0		F-11	4.5	11.5	8.5	7.5						4.5	4.5
0800	4.5		F-11	41.5	41.5	11.5		7.0	8.0		F-11	4.5	11.5	8.5	7.5						4.5	4.5
0900	4.6		F-11	41.5	41.5	10.0		7.0	8.0		F-11	4.5	11.5	8.5	7.5						4.5	4.5
1000	4.5		F-11	41.5	41.5	10.0		7.0	8.0		F-11	4.5	11.5	8.5	7.5						4.5	4.5
1100	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
1200	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
1300	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
1400	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
REMARKS																MECHANIC'S SIGNATURE						
1500	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
1600	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
1700	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
1800	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
1900	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
2000	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
2100	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
2200	4.5		F-11	41.5	41.5	11.0		7.0	7.6		F-11	4.5	11.5	8.5	7.5						4.5	4.5
REMARKS																MECHANIC'S SIGNATURE		TONNAGE PER SHIFT				
9 3.5																		12 TO 1 1 TO 1 4 TO 12				

UNIT NO.		AIR CONDITIONING LOG																		DATE			
# 24																				1-16-94			
TIME	COOLER				CONDENSER				PORTION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)				
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.	DISCHARGE	COND. TEMP.	WATER TEMP.	OIL		TEMP.	PRESSURE	SUCTION PRESSURE	DISCHARGE		OIL LEVEL	REFRIG. LEVEL	2400		GAL. USED				
																	Temp		GAL. USED				
2300	41.3			41.5	41.5	100		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	S	R	S	R	
2400	41.3			41.5	41.5	100		6.5	6.5	7.5	7.5	113	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
0100	41.3			41.5	41.5	95		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
0200	41.3			41.5	41.5	93		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
0300	41.3			41.5	41.5	91		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
0400	41.3			41.5	41.5	91		6.5	6.5	7.5	7.5	111	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
0500	41.3			41.5	41.5	93		6.5	6.5	7.5	7.5	111	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
0600	41.3			41.5	41.5	91		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
REMARKS																						MECHANIC'S SIGNATURE	
0700	41.3			41.5	41.5	92		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
0800	41.3			41.5	41.5	92		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
0900	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
1000	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
1100	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
1200	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
1300	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
1400	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
REMARKS																						MECHANIC'S SIGNATURE	
1500	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
1600	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
1700	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
1800	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
1900	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
2000	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
2100	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
2200	41.3			41.5	41.5	90		6.5	6.5	7.5	7.5	112	32	7.1	DB	WB	RA	DP	41.2	44	41.2	44	
REMARKS																						MECHANIC'S SIGNATURE	

UNIT NO.		AIR CONDITIONING LOG																		DATE					
# 246		COOLER						CONDENSER						COMPRESSOR						PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	WATER MAKE UP (READING)					
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE						2400	GAL. USED				
2300	44			42	42	93		63	70	X	71	114	81	87							S	R			
2400	44			42	42	99		63	71	X	71	113	81	83	100	140	140	140	140	43	47				
0100	44			42	42	101		64	72	X	71	113	81	90						43	47				
0200	44			42	42	96		63	69		71	112	81	83						43	47				
0300	44			42	42	95		62	70		71	112	81	80						43	47				
0400	44			42	42	100		62	68		71	115	80	90						45	47				
0500	44			42	42	110		62	70		71	115	80	90						45	47				
0600	44			42	42	110		62	70		71	115	80	90						45	47				
REMARKS																		MECHANIC'S SIGNATURE				3.06 24.5			
0700	44			42	42	105		62	70		71	115	80	90						45	47				
0800	44			42	42	110		62	74		71	115	80	100	18	9	49	2		45	47				
0900	44			42	42	110		70	76		71	115	80	100						45	47				
1000	44			42	42	110		70	76		71	115	80	100						45	47				
1100	44			42	42	110		70	76		71	115	80	100						45	47				
1200	44			42	42	110		70	76		71	115	80	100						45	47				
1300	44			42	42	114		70	78		71	115	80	110						45	47				
1400	44			42	42	120		70	78		71	115	80	110						45	47				
REMARKS																		MECHANIC'S SIGNATURE				28			
1500	44			42	42	135		60	88		71	115	80	135						45	47				
1600	44			42	42	135		60	88		71	115	80	135						45	47				
1700	44			42	42	135		60	88		71	115	80	135						45	47				
1800	44			42	42	135		60	88		71	115	80	135						45	47				
1900	44			42	42	135		60	88		71	115	80	135						45	47				
2000	44			42	42	135		60	88		71	115	80	135						45	47				
2100	44			42	42	135		60	88		71	115	80	135						45	47				
2200	44			42	42	135		60	88		71	115	80	135						45	47				
REMARKS																		MECHANIC'S SIGNATURE				29 2996 29			
29 2996 29																		24				29			

UNIT NO.		AIR CONDITIONING LOG																		DATE			
#2		COOLER						CONDENSER						COMPRESSOR				PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED		
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	41	75	Full	42.5	43.5	129		71	72	✓	73.2	71.2	115	81	138								
2400	41	75	Full	41.0	42.0	130		71.5	72.0		73.2	71.5	115	81	139	DR	21.0	21.0	21.0	21.0			
0100	42	75	Full	41.5	42.5	129		70.5	71.5		73.2	71.5	115	81	138	33	30	21	27				
0200	43	75	Full	41	42	128		70	72.5		73.2	71.5	116	81	131								
0300	43	75	Full	41	42	126		70	72.5		73.2	71.5	116	81	132								
0400	44	75	Full	41	42	126		70	72.5		73.2	71.5	115	82	134								
0500	44	75	Full	41	42	126		71	72.5		73.2	71.5	116	82	132								
0600	44	75	Full	41	42	126		71	72.5		73.2	71.5	116	81	132								
REMARKS																					MECHANIC'S SIGNATURE		
0700	44	75	Full	41	42	110		68	76		73.2	71.5	115	80	110								
0800	44	75	Full	41	42	110		68	76		73.2	71.5	115	80	110	86	18	54	15				
0900	44	75	Full	41	42	110		68	76		73.2	71.5	115	80	110								
1000	43	75	Full	41	42	121		68	76		73.2	71.5	115	80	128								
1100	43	75	Full	41	42	126		68	76		73.2	71.5	115	81	131								
1200	43	75	Full	41	42	126		68	76		73.2	71.5	115	81	135								
1300	43	75	Full	41	42	126		68	76		73.2	71.5	115	81	135								
1400	43	75	Full	41	42	126		68	76		73.2	71.5	115	81	135								
REMARKS																					MECHANIC'S SIGNATURE		
1500	44	75	Full	41	42	113		67	76		73.2	71.5	114	80	110	DB	USE	15.4	1.0				
1600	44	75	Full	41	42	113		67	76		73.2	71.5	114	80	110	6	40	41	2.5				
1700	44	75	Full	41	42	113		67	76		73.2	71.5	114	81	111								
1800	44	75	Full	41	42	113		67	76		73.2	71.5	114	81	111								
1900	44	75	Full	41	42	113		67	76		73.2	71.5	114	81	111								
2000	44	75	Full	41	42	113		67	76		73.2	71.5	114	81	111								
2100	44	75	Full	41	42	113		67	76		73.2	71.5	114	81	111								
2200	44	75	Full	41	42	113		67	76		73.2	71.5	114	81	111								
REMARKS																					MECHANIC'S SIGNATURE		
RUNNING TIME															24 DB		TONNAGE PER SHIFT						
																	12 TO 8 8 TO 4 4 TO 12						

WRAMC FORM 367
16 SEP 1963

[illegible]

UNIT NO.		AIR CONDITIONING LOG																		DATE	
11-7-94		COOLER						CONDENSER				COMPRESSOR				PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS	
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE							
2300	45	110	110	45	45	120	110	45	45	110	110	110	110	110	110	110	110	110	110	110	110
2400	45	110	110	45	45	120	110	45	45	110	110	110	110	110	110	110	110	110	110	110	
0100	45	110	110	45	45	120	110	45	45	110	110	110	110	110	110	110	110	110	110	110	
0200	45	110	110	45	45	120	110	45	45	110	110	110	110	110	110	110	110	110	110	110	
0300	45	110	110	45	45	120	110	45	45	110	110	110	110	110	110	110	110	110	110	110	
0400	45	110	110	45	45	120	110	45	45	110	110	110	110	110	110	110	110	110	110	110	
0500	45	110	110	45	45	120	110	45	45	110	110	110	110	110	110	110	110	110	110	110	
0600	45	110	110	45	45	120	110	45	45	110	110	110	110	110	110	110	110	110	110	110	
REMARKS																					
14 15 670% 50																					
MECHANIC'S SIGNATURE																					
0700	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
0800	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
0900	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
1000	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
1100	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
1200	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
1300	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
1400	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
REMARKS																					
1170																					
MECHANIC'S SIGNATURE																					
1500	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
1600	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
1700	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
1800	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
1900	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
2000	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
2100	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
2200	43	111	111	43	43	120	111	43	43	111	111	111	111	111	111	111	111	111	111	111	
REMARKS																					
24 hrs																					
MECHANIC'S SIGNATURE																					
TONNAGE PER SHIFT																					
12 TO 4																					
4 TO 8																					
8 TO 12																					

UNIT NO.		AIR CONDITIONING LOG																		DATE			
#1		COOLER						CONDENSER				COMPRESSOR				PURGE				WATER MAKE UP (READING)			
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS			
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	4.2	-	Full	54	47	132	-	62	78	-	71.1	78	120	82	14.1					4.2	5.0		
2400	4.2	-	Full	54	47	132	-	62	78	-	71.1	78	120	82	14.1					4.2	5.0		
0100	4.2	-	Full	54	47	132	-	62	78	-	71.1	78	120	82	14.1					4.2	5.0		
0200	4.2	-	Full	54	47	132	-	62	78	-	71.1	78	120	82	14.1					4.2	5.0		
0300	4.2	-	Full	54	47	132	-	62	78	-	71.1	78	120	82	14.1					4.2	5.0		
0400	4.2	-	Full	54	47	132	-	62	78	-	71.1	78	120	82	14.1					4.2	5.0		
0500	4.2	-	Full	54	47	132	-	62	78	-	71.1	78	120	82	14.1					4.2	5.0		
0600	4.2	-	Full	54	47	132	-	62	78	-	71.1	78	120	82	14.1					4.2	5.0		
REMARKS		2013 8:12																		MECHANIC'S SIGNATURE			
0700	4.2	X	Full	50.5	42	121	-	61	72	X	73.6	77.5	114	81	126					4.2	5.7		
0800	4.3	X	Full	51	43	122	-	62	70.5	X	73.6	77.5	115	82	127	120	110	90	70	4.3	7.5		
0900	4.2	-	Full	52	44	132	-	64	73	-	73.6	77.5	116	82	132	120	110	90	70	4.3	4.9		
1000	4.2	-	Full	54	46	140	-	64	74	-	73.6	77.5	116	82	146					4.4	4.9		
1100	4.2	-	Full	54	46	140	-	64	74	-	73.6	77.5	116	82	146					4.4	5.2		
1200	4.2	-	Full	55	46	135	-	66	74	-	73.6	77.5	116	82	147					4.6	5.2		
1300	4.2	-	Full	56	47	136	-	69	72.5	-	73.6	77.5	116	82	148					4.7	5.2		
1400	4.2	-	Full	56	47	136	-	69	72.5	-	73.6	77.5	116	82	148					4.7	5.2		
REMARKS																				MECHANIC'S SIGNATURE			
1500	4.1	-	Full	57	47	136	-	69	74	-	73.6	77.5	118	82	147	120	110	PH	DP	5.0	5.2		
1600	4.1	-	Full	57	47	136	-	69	74	-	73.6	77.5	118	82	147	120	110	PH	DP	5.0	5.2		
1700	4.1	-	Full	58	47	136	-	69	74	-	73.6	77.5	119	82	146					5.1	5.2		
1800	4.1	-	Full	58	47	136	-	69	74	-	73.6	77.5	119	82	146					5.1	5.2		
1900	4.1	-	Full	58	47	136	-	69	74	-	73.6	77.5	119	82	146					5.1	5.2		
2000	4.1	-	Full	58	47	136	-	69	74	-	73.6	77.5	119	82	146					5.1	5.2		
2100	4.1	-	Full	58	47	136	-	69	74	-	73.6	77.5	119	82	146					5.1	5.2		
2200	4.1	-	Full	58	47	136	-	69	74	-	73.6	77.5	119	82	146					5.1	5.2		
REMARKS		RUNNING TIME 24.11.25																		MECHANIC'S SIGNATURE		TONNAGE PER SHIFT	
																						1 TO 1 1 TO 2 1 TO 3	

UNIT NO.		AIR CONDITIONING LOG															DATE							
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)			
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COID. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED			
				IN	OUT			IN	OUT															
2300																								
2400																								
0100																								
0200																								
0300																								
0400																								
0500																								
0600																								
REMARKS															MECHANIC'S SIGNATURE									
0700																								
0800																								
0900																								
1000																								
1100																								
1200																								
1300																								
1400																								
REMARKS															MECHANIC'S SIGNATURE									
1500																								
1600																								
1700																								
1800																								
1900																								
2000																								
2100																								
2200																								
REMARKS															MECHANIC'S SIGNATURE									
															RUNNING TIME					TONNAGE PER SHIFT				
																				12 TO 5				
																				5 TO 12				
																				5 TO 12				

UNIT NO.		AIR CONDITIONING LOG																		DATE			
112		COOLER						CONDENSER						COMPRESSOR						PURGE		WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS			
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
2400	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
0100	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
0200	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
0300	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
0400	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
0500	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
0600	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
REMARKS: 10:15 AM - 11:29 AM 25 60% 25 Power Diode at 515 Light 60% Diode																							
0700	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
0800	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
0900	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
1000	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
1100	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
1200	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
1300	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
1400	48	-	Full	50	50	120	-	60	72	-	70	7	120	80	14						50		
REMARKS: 15:00 - 17:00 25 60% 25 Power Diode at 515 Light 60% Diode																							
1500	45	-	Full	51	43.5	127	-	75	84	-	TSG	7/8	116	82	115						50		
1600	45	-	Full	52	44	127	-	75	85	-	TSG	7/8	116	83	120						50		
1700	45	-	Full	52	44	127	-	75	85	-	TSG	7/8	117	83	122	103	413	RH	DP		50		
1800	45	-	Full	52	43.5	125	-	74	84	-	TSG	7/8	117	83	122	44	40	62	32		50		
1900	45	-	Full	51	43	130	-	76	85	-	TSG	7/8	117	83	120						50		
2000	45	-	Full	52	43.5	126	-	75	85	-	TSG	7/8	117	83	121						50		
2100	45	-	Full	52	44	126	-	75	84	-	TSG	7/8	117	82	122						50		
2200	44	-	Full	52	43	127	-	74	84	-	TSG	7/8	117	82	125						50		
REMARKS: 18:00 - 20:00 25 60% 25 Power Diode at 515 Light 60% Diode																							
WORKING TIME										MECHANIC'S SIGNATURE										TONNAGE PER SHIFT			
										Richard Marais										12 TO 12			

UNIT NO.		AIR CONDITIONING LOG																		DATE Jan 24-94			
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE			WATER MAKE UP (READING)		COMMENTS	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED		
				IN	OUT			IN	OUT											2400	GAL. USED		
2300																							
2400																							
0100																							
0200																							
0300																							
0400																							
0500																							
0600																							
REMARKS																			MECHANIC'S SIGNATURE				
0700																							
0800																							
0900																							
1000																							
1100																							
1200																							
1300				5	AA	7	11	1	11	10		1	11	12	1	50	11	11					
1400				67	78	124		50	112	20	TSG	116	115	80	101								
REMARKS																			MECHANIC'S SIGNATURE			13 11/10	
1500	47		Full	49	42	126		73	85		TSG	118	115	82	110								
1600	48		Full	49	42.5	135		68	85		TSG	118	117	82	103								
1700	48		Full	50	43	125		66	80		TSG	118	117	81	102								
1800	49		Full	50	43	135		68	85		TSG	118	117	83	100								
1900	48		Full	48	42	127		66	82		TSG	118	117	81	95								
2000	49		Full	48	42	131		70	85		TSG	118	117	82	95								
2100	48		Full	48	42.5	127		68	83		TSG	118	117	82	95								
2200	49		Full	49	42.5	131		70	85		TSG	118	117	82	95								
REMARKS																			MECHANIC'S SIGNATURE			Richard Marzio	
RUNNING TIME																						TONNAGE PER SHIFT	
																						13 TO 4	
																						4 TO 12	

UNIT NO.		AIR CONDITIONING LOG																		DATE					
2 York		COOLER						CONDENSER						COMPRESSOR						PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS					
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE											
2300	41	5	124	51	112	122		74	81		112	78	115	82	18										
2400	41	5	124	51	112	122		74	81		112	78	115	82	18										
0100	41	5	124	51	112	122		74	81		112	78	115	82	18						48 40 75 75				
0200	41	5	124	51	112	122		74	81		112	78	115	82	18										
0300	41	5	124	51	112	122		74	81		112	78	115	82	18										
0400	41	5	124	51	112	122		74	81		112	78	115	82	18										
0500	41	5	124	51	112	122		74	81		112	78	115	82	18										
0600	41	5	124	51	112	122		74	81		112	78	115	82	18										
REMARKS																					MECHANIC'S SIGNATURE				
0700	41	5	124	51	112	122		74	81		112	78	115	82	18										
0800	41	5	124	51	112	122		74	81		112	78	115	82	18										
0900	41	5	124	51	112	122		74	81		112	78	115	82	18										
1000	41	5	124	51	112	122		74	81		112	78	115	82	18										
1100	41	5	124	51	112	122		74	81		112	78	115	82	18										
1200	41	5	124	51	112	122		74	81		112	78	115	82	18										
1300	41	5	124	51	112	122		74	81		112	78	115	82	18										
1400	41	5	124	51	112	122		74	81		112	78	115	82	18										
REMARKS																					MECHANIC'S SIGNATURE				
1500	45	Full	50	42	119		74	82		TSG	78	115	82	95											
1600	44	Full	50	42.5	116		74	80		TSG	78	117	82	92											
1700	45	Full	50	42	115		74	80		TSG	78	117	82	95	DB	WB	RH	DP							
1800	44	Full	50	42	115		74	80		TSG	78	115	82	95	57	48	48	40							
1900	45	Full	50	42	113		74	78		TSG	78	115	82	85											
2000	45	Full	50	42.5	113		73	78		TSG	78	115	82	85											
2100	45	Full	50	42	110		72	78		TSG	78	115	82	85											
2200	45	Full	50	42	112		72	78		TSG	78	115	82	85											
REMARKS																					MECHANIC'S SIGNATURE				
																					TONNAGE PER SHIFT				
																					12 TO 5				
																					8 TO 4				
																					4 TO 12				

UNIT NO. <u>11</u>		AIR CONDITIONING LOG																		DATE <u>24/4/4</u>			
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP'S.	PURGE				WATER MAKE UP (READING)		
	GPM				WATER TEMP.	GPM				WATER TEMP.		OIL					SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2400 _____	GAL. USED _____	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	IN		OUT	DISCHARGE	COND. TEMP.	IN			OUT	BEARING TEMP.	LEVEL	TEMP.								PRESSURE
2300																							
2400																							
0100																							
0200																							
0300																							
0400																							
0500																							
0600																							
REMARKS <u>START AT 5 AM</u>																						MECHANIC'S SIGNATURE _____	
0700	16	37.5	17.0	49.0	43.0	3.5	7.5	1.0	11.0	✓	10.5	3.0	12.0	1.0	7.5	5.0	1.5	1.0	1.0	1.0	1.0	1.0	
0800	16	37.5	17.0	49.0	43.0	3.5	7.5	1.0	11.0	✓	10.5	3.0	12.0	1.0	7.5	5.0	1.5	1.0	1.0	1.0	1.0		
0900	16	37.5	17.0	49.0	43.0	3.5	7.5	1.0	11.0	✓	10.5	3.0	12.0	1.0	7.5	5.0	1.5	1.0	1.0	1.0	1.0		
1000	16	37.5	17.0	49.0	43.0	3.5	7.5	1.0	11.0	✓	10.5	3.0	12.0	1.0	7.5	5.0	1.5	1.0	1.0	1.0	1.0		
1100	16	37.5	17.0	49.0	43.0	3.5	7.5	1.0	11.0	✓	10.5	3.0	12.0	1.0	7.5	5.0	1.5	1.0	1.0	1.0	1.0		
1200	16	37.5	17.0	49.0	43.0	3.5	7.5	1.0	11.0	✓	10.5	3.0	12.0	1.0	7.5	5.0	1.5	1.0	1.0	1.0	1.0		
1300																							
1400																							
REMARKS																						MECHANIC'S SIGNATURE _____	
1500																							
1600																							
1700																							
1800																							
1900																							
2000																							
2100																							
2200																							
REMARKS																						MECHANIC'S SIGNATURE _____	
TUNNING TIME																						TONNAGE PER SHIFT	
																						12 TO 1 _____	
																						8 TO 4 _____	
																						4 TO 12 _____	

UNIT NO.		AIR CONDITIONING LOG																		DATE		
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED	
				IN	OUT			IN	OUT													
2300	2.1			2.1	1.5			4.0		1.1	2.1	1.5	8.0	6.0								
2400	2.1			2.1	1.5			4.0		1.1	2.1	1.5	8.0	6.0								
0100	2.1			2.1	1.5			4.0		1.1	2.1	1.5	8.0	6.0								
0200	2.1			2.1	1.5			4.0		1.1	2.1	1.5	8.0	6.0								
0300	2.1			2.1	1.5			4.0		1.1	2.1	1.5	8.0	6.0								
0400	2.1			2.1	1.5			4.0		1.1	2.1	1.5	8.0	6.0								
0500	2.1			2.1	1.5			4.0		1.1	2.1	1.5	8.0	6.0								
0600	2.1			2.1	1.5			4.0		1.1	2.1	1.5	8.0	6.0								
REMARKS																				MECHANIC'S SIGNATURE		
0700	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
0800	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
0900	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
1000	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
1100	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
1200	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
1300	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
1400	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
REMARKS																				MECHANIC'S SIGNATURE		
1500	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
1600	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
1700	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
1800	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
1900	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
2000	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
2100	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
2200	4.1			4.1	1.5			7.0	8.0	X	1.1	1.5	1.5	8.0	9.0							
REMARKS																				MECHANIC'S SIGNATURE		
																				TURNING TIME		
																				TONNAGE PER SHIFT		
																				12 TO 4		
																				4 TO 8		
																				8 TO 12		

UNIT NO.		AIR CONDITIONING LOG															DATE							
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)			
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED			
				IN	OUT			IN	OUT													IN	OUT	
2300																								
2400																								
0100																								
0200																								
0300																								
0400																								
0500																								
0600																								
REMARKS															MECHANIC'S SIGNATURE									
0700	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
0800	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
0900	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
1000	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
1100	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
1200	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
1300	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
1400	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
REMARKS															MECHANIC'S SIGNATURE									
1500	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
1600	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
1700	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
1800	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
1900	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
2000	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
2100	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
2200	4.5			4.5	112	112		78	84		7.5	7.5	11.5	82	90									
REMARKS															MECHANIC'S SIGNATURE									
RUNNING TIME															TONNAGE PER SHIFT									

UNIT NO.		AIR CONDITIONING LOG																		DATE		
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP'S.	PURGE				WATER MAKE UP (READING)	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED	
				IN	OUT			IN	OUT													IN	OUT
2300	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
2400	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
0100	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
0200	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
0300	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
0400	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
0500	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
0600	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
REMARKS																				MECHANIC'S SIGNATURE		
0700	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
0800	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
0900	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
1000	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
1100	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
1200	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
1300	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
1400	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
REMARKS																				MECHANIC'S SIGNATURE		
1500	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
1600	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
1700	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
1800	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
1900	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
2000	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
2100	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
2200	4.5	-	20.1	50	16	12.1	-	7.0	8.1	-	7.1	7.0	11.8	80	4.5							
REMARKS																				MECHANIC'S SIGNATURE		
Tonnage per Shift																				TONNAGE PER SHIFT		
																				12 TO 1		
																				8 TO 12		

UNIT NO.		AIR CONDITIONING LOG																		DATE					
2		COOLER						CONDENSER						COMPRESSOR						PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED				
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE											
2300	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71	71				
2400	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
0100	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
0200	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
0300	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
0400	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
0500	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
0600	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
REMARKS																					MECHANIC'S SIGNATURE				
0700	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
0800	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
0900	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
1000	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
1100	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
1200	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
1300	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
1400	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
REMARKS																					MECHANIC'S SIGNATURE				
1500	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
1600	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
1700	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
1800	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
1900	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
2000	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
2100	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
2200	41	-	1	41	41	12	-	71	71	-	71	71	71	71	71	71	71	71	71	71					
REMARKS																					MECHANIC'S SIGNATURE				

UNIT NO. #121K		AIR CONDITIONING LOG																		DATE 1-27-74		
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED	
				IN	OUT			IN	OUT													IN	OUT
2300	50		Full	48	43.5	121		68	82		TSG	18	115	81	85							
2400	49		Full	48	43	135		70	86		TSG	18	115	83	90							
0100	50		Full	48	43	129		70	84		TSG	18	115	82	85							
0200	50		Full	48	43.5	130		70	85		TSG	18	115	82	85							
0300	50		Full	48	43	121		70	78		TSG	18	115	81	85							
0400	50		Full	48	44	135		72	86		TSG	18	115	83	85							
0500	50		Full	49	43	126		62	83		TSG	18	115	82	85							
0600	50		Full	49	43	121		70	82		TSG	18	115	81	85							
REMARKS																				MECHANIC'S SIGNATURE		
0700	49		Full	50	42.5	148		71	88		TSG	18	116	82	103							
0800	48		Full	50	42	138		67	83		TSG	18	113	82	97							
0900	49		Full	49	42	122		66	81.5		TSG	18	114	81	92	22	21	98	18			
1000	49		Full	48.5	42	121		68	82		TSG	18	113	81	90							
1100	49		Full	48	42	138		69.5	82		TSG	18	113	82	95							
1200	50		Full	48	42	136		70	85		TSG	18	113	81	96							
1300	50		Full	48	42	123		69	81		TSG	18	114	82	95							
1400	50		Full	48	42	132		68.5	84		TSG	18	113	82	96							
REMARKS																				MECHANIC'S SIGNATURE		
1500	50		Full	48	42	120		68	81		TSG	18	113	80	95							
1600	48		Full	48	42	120		68	84		TSG	18	113	82	95							
1700	48		Full	48	42	125		68	84		TSG	18	113	80	90							
1800	48		Full	48	42	125		68	81		TSG	18	113	80	100							
1900	48		Full	48	42	130		70	86		TSG	18	113	80	100							
2000	48		Full	48	42	130		70	86		TSG	18	113	80	95							
2100	48		Full	48	42	130		70	88		TSG	18	113	80	95							
2200	48		Full	48	42	130		70	88		TSG	18	113	80	95							
REMARKS																				MECHANIC'S SIGNATURE		
WORKING TIME																				TONNAGE PER SHIFT		
																				15 TO 1		
																				1 TO 15		
																				15 TO 12		

WRAMC FORM 367
1E SEP 1961

UNIT NO.		AIR CONDITIONING LOG															DATE					
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)	
	GPM				WATER TEMP.	GPM				WATER TEMP.		OIL					SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL		
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	IN		OUT	DISCHARGE	COND. TEMP.	IN			OUT	BEARING TEMP.	LEVEL	TEMP.							PRESSURE
2300	49		FULL	48	43	135		70	85		TSG	1/8	117	83	100							
2400	49		FULL	49	43	133		69	85		TSG	1/8	117	83	100							
0100	49		FULL	49	43	135		70	85		TSG	1/8	117	83	100							
0200	48		FULL	48	42.5	128		68	83		TSG	1/8	117	83	95							
0300	50		FULL	48	43	140		74	88		TSG	1/8	117	83	90							
0400	50		FULL	48	43	139		73	88		TSG	1/8	117	83	92							
0500	49		FULL	48	43	127		66	83		TSG	1/8	117	83	90							
0600	50		FULL	48	43	130		70	84		TSG	1/8	117	83	90							
REMARKS																						
0700	49		FULL	48	43	121		66	77		TSG	1/8	117	81	93							
0800	47		FULL	47	41	127		68	85		TSG	1/8	117	82	105							
0900	47		FULL	48	42.5	134		66	85		TSG	1/8	117	82	100							
1000	78		FULL	48	42	132		66	82		TSG	1/8	117	82	105							
1100	48		FULL	49	42.5	135		68	85		TSG	1/8	117	83	110							
1200	47		FULL	46	43	135		77	84		TSG	1/8	116	82	111							
1300	47		FULL	47	43	135		73	84		TSG	1/8	116	82	111							
1400	47		FULL	49	42	135		68	86		TSG	1/8	117	82	112							
REMARKS																						
1500	48		FULL	46	46	135		69	86		TSG	1/8	115	80	115							
1600	48		FULL	46	46	145		69	86		TSG	1/8	115	80	115							
1700	48		FULL	48	42	145		73	90		TSG	1/8	115	85	125							
1800	48		FULL	60	44	145		72	90		TSG	1/8	115	85	125							
1900	48		FULL	50	44	145		72	90		TSG	1/8	115	85	120							
2000	48		FULL	48	44	135		70	86		TSG	1/8	115	85	120							
2100	48		FULL	48	44	135		66	86		TSG	1/8	115	85	120							
2200	48		FULL	48	44	135		66	86		TSG	1/8	115	85	120							
REMARKS																						
TUNING TIME															MECHANIC'S SIGNATURE		TONNAGE PER SHIFT					
															<i>Richard Manzio</i>		12 TO 1 _____ 8 TO 4 _____ 4 TO 12 _____					

UNIT NO.		AIR CONDITIONING LOG																		DATE				
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)			
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS				
				IN	OUT			IN	OUT											S	R	S	R	
2300	45		Full	49	43	123		26	84		TSG	7/8	117	83	85					42	46	78	67	
2400	46		Full	49	43	123		28	84		TSG	7/8	117	83	85					42.5	46.5	84	68	
0100	46		Full	49	43	123		26	84		TSG	7/8	117	83	85					42.5	46.5	83	67	
0200	45		Full	48	42.5	120		26	84		TSG	7/8	117	83	85					42	46	81	66	
0300	46		Full	48	43	120		26	84		TSG	7/8	117	83	85					42	46	80	65	
0400	45		Full	48	42	121		26	84		TSG	7/8	117	83	85					42	46	79	64	
0500	46		Full	49	42.5	121		25	84		TSG	7/8	117	83	85					42	46	77	63	
0600	46		Full	49	42	120		25	84		TSG	7/8	117	83	85					42	46	76	62	
REMARKS																		MECHANIC'S SIGNATURE <i>Richard Martin</i>						
0700	46		Full	49	43	120		25	83		TSG	7/8	117	83	87					42.5	46.5	85	70	
0800	49		Full	48	41	121		26	84		TSG	7/8	117	82	90					41	45	83	68	
0900	45		Full	49	42.5	124		22	84		TSG	7/8	117	83	93					41.5	46	81	66	
1000	45		Full	49	42	127		28	85		TSG	7/8	117	83	100					42	47	81	66	
1100	45		Full	49	43	125		28	85		TSG	7/8	117	83	100					42	47	79	64	
1200	44		Full	49	43	128		30	87		TSG	7/8	115	83	101					42	47			
1300	44		Full	49	43	133		30	87		TSG	7/8	115	83	101					42	47			
1400	44		Full	49	43	130		29	85		TSG	7/8	115	83	102					42	47	76	61	
REMARKS																		MECHANIC'S SIGNATURE <i>Richard Martin</i>						
1500	44		Full	48	42	125		30	84		TSG	7/8	115	80	105					42	47	80	65	
1600	44		Full	48	42	125		30	84		TSG	7/8	115	80	105					42	47	80	65	
1700	44		Full	48	42	125		30	84		TSG	7/8	115	80	100					42	47	80	65	
1800	44		Full	48	42	125		30	84		TSG	7/8	115	80	100					42	47	80	65	
1900	44		Full	48	42	125		30	84		TSG	7/8	115	80	100					42	47	80	65	
2000	44		Full	48	42	125		30	84		TSG	7/8	115	80	100					42	47	80	65	
2100	44		Full	48	42	125		30	84		TSG	7/8	115	80	100					42	47	80	65	
2200	44		Full	48	42	125		30	84		TSG	7/8	115	80	100					42	47	80	65	
REMARKS																		MECHANIC'S SIGNATURE <i>Richard Martin</i>						
TUNING TIME																		TONNAGE PER SHIFT						

UNIT NO.		AIR CONDITIONING LOG																		DATE			
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)		
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED		
				IN	OUT			IN	OUT													IN	OUT
2300	49		Full	50	43	138		68	87		TSG	18	117	83	107								
2400	49		Full	50	43	125		64	79		TSG	18	117	81	103								
0100	49		Full	49	43	135		67	85		TSG	18	117	83	105								
0200	49		Full	50	43	130		66	82		TSG	18	118	83	105								
0300	49		Full	50	43	138		67	86		TSG	18	118	83	106								
0400	49		Full	50	43	134		67	84		TSG	18	118	83	107								
0500	49		Full	50	43	133		66	83		TSG	18	118	83	110								
0600	49		Full	51	43.5	130		65	82		TSG	18	118	83	108								
REMARKS																					MECHANIC'S SIGNATURE		
0700	48		Full	50	43	130		65	80		TSG	18	122	80	11								
0800	48		Full	50	43	130		65	80		TSG	18	122	80	11								
0900	48		Full	50	43	130		65	80		TSG	18	122	80	11								
1000	48		Full	50	43	130		65	80		TSG	18	122	80	11								
1100	48		Full	50	43	130		65	80		TSG	18	122	80	11								
1200	48		Full	50	43	130		65	80		TSG	18	122	80	11								
1300	48		Full	50	43	130		65	80		TSG	18	122	80	11								
1400	48		Full	50	43	130		65	80		TSG	18	122	80	11								
REMARKS																					MECHANIC'S SIGNATURE		
1500	48		Full	50	43	130		65	80		TSG	18	115	80	115								
1600	48		Full	50	43	130		65	80		TSG	18	115	80	115								
1700	48		Full	50	43	130		65	80		TSG	18	115	80	115								
1800	48		Full	50	43	130		65	84		TSG	18	115	80	115								
1900	48		Full	50	43	130		65	84		TSG	18	115	80	115								
2000	48		Full	50	43	125		66	86		TSG	18	115	80	115								
2100	48		Full	50	43	125		66	84		TSG	18	115	80	110								
2200	48		Full	50	43	125		66	86		TSG	18	115	80	110								
REMARKS																					MECHANIC'S SIGNATURE		
RUNNING TIME															TONNAGE PER SHIFT								
															12 TO 8								
															8 TO 4								
															4 TO 12								

UNIT NO.		AIR CONDITIONING LOG																		DATE				
2400		COOLER						CONDENSER						COMPRESSOR				PURGE				WATER MAKE UP (READING)		
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	WATER MAKE UP (READING)				
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE						2400	GAL. USED			
2300	75		Full	50	42	124		75	84		TSG	78	117	83	102						42	47	25	61
2400	44		Full	79	42	126		28	85		TSG	78	117	83	100						42	47	85	70
0100	45		Full	79	42	125		25	84		TSG	78	117	83	100						42	47	83	69
0200	46		Full	50	43	120		25	83		TSG	78	117	83	90						42	48	81	67
0300	46		Full	50	43	125		26	84		TSG	78	117	83	93						42	48	81	66
0400	46		Full	50	43	124		26	84		TSG	78	117	83	93						42	48	78	65
0500	46		Full	50	43	121		25	84		TSG	78	117	83	95						42	48	74	63
0600	46		Full	50	43	120		25	83		TSG	78	117	83	95						42	48	74	63
REMARKS																				MECHANIC'S SIGNATURE		Richard Menaio		
0700	46		Full	50	43	120		25	83		TSG	78	118	81	45									
0800	46		Full	50	43	120		25	83		TSG	78	118	81	45									
0900	46		Full	50	43	120		25	83		TSG	78	118	81	45									
1000	46		Full	50	43	120		25	83		TSG	78	118	81	45									
1100	46		Full	50	43	120		25	83		TSG	78	118	81	45									
1200	46		Full	50	43	120		25	83		TSG	78	118	81	45									
1300	46		Full	50	43	120		25	83		TSG	78	118	81	45									
1400	46		Full	50	43	120		25	83		TSG	78	118	81	45									
REMARKS																				MECHANIC'S SIGNATURE				
1500	46		Full	50	43	120		26	82		TSG	718	115	80	100						43	48	75	62
1600	46		Full	50	43	120		26	84		TSG	718	115	80	105						43	48	75	62
1700	46		Full	50	43	120		26	84		TSG	718	115	80	105						43	48	75	62
1800	46		Full	50	43	125		26	84		TSG	718	115	80	105						43	48	75	62
1900	46		Full	50	43	125		26	84		TSG	718	115	80	105						43	48	75	62
2000	46		Full	50	43	125		26	84		TSG	718	115	80	105						43	48	75	62
2100	46		Full	50	43	125		26	84		TSG	718	115	80	105						43	48	75	62
2200	46		Full	50	43	125		26	84		TSG	718	115	80	105						43	48	75	62
REMARKS																				MECHANIC'S SIGNATURE				
																				HOURS TIME				
																				MECHANIC'S SIGNATURE				
																				TONNAGE PER SHIFT				
																				1 TO 4				
																				4 TO 8				
																				8 TO 12				

UNIT NO.		AIR CONDITIONING LOG														DATE							
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)		
	GPM				WATER TEMP.	GPM				WATER TEMP.		OIL					SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	IN		OUT	DISCHARGE	COND. TEMP.	IN			OUT	BEARING TEMP.	LEVEL	TEMP.								PRESSURE
2300	48		Full	49	43	129		67	82		TSG	18	117	82	107								
2400	48		Full	50	43	135		65	85		TSG	18	118	82	108								
0100	48		Full	50	43	133		65	82		TSG	18	118	82	108								
0200	48		Full	50	43	127		65	82		TSG	18	118	82	107								
0300	48		Full	50	43	130		65	85		TSG	18	118	82	105								
0400	48		Full	50	43	135		67	85		TSG	18	118	82	105								
0500	48		Full	50	43	126		65	80		TSG	18	118	82	105								
0600	48		Full	50	43	130		67	83		TSG	18	118	82	107								
REMARKS																MECHANIC'S SIGNATURE		Richard M. Mair					
0700	48		Full	50	43	135		67	85		TSG	18	118	80	107								
0800	48		Full	50	43	135		67	85		TSG	18	118	80	107								
0900	48		Full	50	43	135		67	85		TSG	18	118	80	107								
1000	48		Full	50	43	135		67	85		TSG	18	118	80	107								
1100	48		Full	50	43	135		67	85		TSG	18	118	80	107								
1200	48		Full	50	43	135		67	85		TSG	18	118	80	107								
1300	48		Full	50	43	135		67	85		TSG	18	118	80	107								
1400	48		Full	50	43	135		67	85		TSG	18	118	80	107								
REMARKS																MECHANIC'S SIGNATURE		Richard M. Mair					
1500	48		Full	50	43	140		68	82		TSG	18	115	80	110								
1600	48		Full	50	43	140		68	84		TSG	18	115	80	110								
1700	48		Full	50	43	140		68	84		TSG	18	115	80	110								
1800	48		Full	50	43	135		68	82		TSG	18	115	80	105								
1900	48		Full	50	43	135		68	82		TSG	18	115	80	105								
2000	48		Full	50	43	135		68	82		TSG	18	115	80	105								
2100	48		Full	50	43	135		68	82		TSG	18	115	80	105								
2200	48		Full	50	43	135		68	84		TSG	18	115	80	105								
REMARKS																MECHANIC'S SIGNATURE		Richard M. Mair					
RUNNING TIME																TONNAGE PER SHIFT		12 TO 6					

UNIT NO.		AIR CONDITIONING LOG																		DATE				
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)			
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		OIL			SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS				
				IN	OUT			IN	OUT			LEVEL	TEMP.	PRESSURE						S	R	S	R	
2300	45		Full	50	73	122		75	84		TSG	78	117	82	95					42.5	42.5	75	64	
2400	45		Full	50	72.5	121		75	84		TSG	78	117	82	95					42.5	42.5	84	70	
0100	45		Full	50	72	122		75	84		TSG	78	117	82	95					42.5	42.5	84	68	
0200	45		Full	49	72	123		75	84		TSG	78	117	83	95					42.5	42.5	82	66	
0300	45		Full	50	72	121		75	84		TSG	78	117	83	95					42.5	42.5	82	65	
0400	45		Full	50	72	120		75	84		TSG	78	117	83	95					42.5	42.5	79	64	
0500	45		Full	49	72	121		75	84		TSG	78	117	83	93					42.5	47	77	63	
0600	45		Full	49	72	119		75	84		TSG	78	117	83	93					42.5	47	75	61	
REMARKS		MECHANIC'S SIGNATURE <i>Richard P. [illegible]</i>																						
0700	45		Full	49	71	120		75	84		TSG	78	118	82	95					42	47	75	60	
0800	45		Full	49	71	120		75	84		TSG	78	118	82	95					42	47	75	60	
0900	45		Full	49	71	120		75	84		TSG	78	118	82	95					42	47	75	60	
1000	45		Full	49	71	120		75	84		TSG	78	118	82	95					42	47	75	60	
1100	45		Full	49	71	120		75	84		TSG	78	118	82	95					42	47	75	60	
1200	45		Full	49	71	120		75	84		TSG	78	118	82	95					42	47	75	60	
1300	45		Full	49	71	120		75	84		TSG	78	118	82	95					42	47	75	60	
1400	45		Full	49	71	120		75	84		TSG	78	118	82	95					42	47	75	60	
REMARKS		MECHANIC'S SIGNATURE <i>Richard P. [illegible]</i>																						
1500	46		Full	48	72	120		78	86		TSG	78	118	80	90					42	48	75	60	
1600	46		Full	48	72	120		78	86		TSG	78	118	80	90					42	48	75	60	
1700	46		Full	48	72	120		78	86		TSG	78	118	80	90					42	48	75	60	
1800	46		Full	48	72	120		78	86		TSG	78	118	80	95					42	48	75	60	
1900	46		Full	48	72	120		78	84		TSG	78	118	80	95					42	48	75	60	
2000	46		Full	48	72	120		78	84		TSG	78	118	80	95					42	48	75	60	
2100	46		Full	48	72	120		78	84		TSG	78	118	80	95					42	48	75	60	
2200	46		Full	48	72	120		78	84		TSG	78	118	80	95					42	48	75	60	
REMARKS		MECHANIC'S SIGNATURE <i>Richard P. [illegible]</i>																						
TUNING TIME										MECHANIC'S SIGNATURE <i>Richard P. [illegible]</i>										TONNAGE PER SHIFT				
																				12 TO 4				
																				4 TO 12				

UNIT NO.	AIR CONDITIONING LOG																		DATE 1-31-91	
TIME	COOLER				CONDENSER				POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.	LEVEL	TEMP.	PRESSURE		SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS	
				IN	OUT			IN												OUT
2300	48		Full	49	43	126		64	80		TSG	18	117	82	103					
2400	48		Full	49	43	130		64	84		TSG	18	117	82	103					
0100	48		Full	48	43	135		66	85		TSG	18	117	83	103					
0200	48		Full	48	42.5	124		62	79		TSG	18	118	81	100					DR W13 RH DP
0300	48		Full	48	42.5	121		64	78		TSG	18	118	81	102					32 29 70 25
0400	48		Full	48	42.5	126		65	79		TSG	18	118	81	102					
0500	48		Full	48	43	130		66	83		TSG	18	118	82	104					
0600	48		Full	48	42.5	133		66	83		TSG	18	118	82	104					
REMARKS																		MECHANIC'S SIGNATURE		
0700	48		Full	48	42	131		65	80		TSG	18	118	82	104					Richard Masario
0800	48		Full	48	42	130		65	80		TSG	18	118	82	100					36 24 56 26
0900	48		Full	48	42	130		67	80		TSG	18	116	80	101					
1000	48		Full	48	42	130		67	80		TSG	18	116	80	110					
1100	48		Full	48	42	130		67	80		TSG	18	116	80	110					
1200	48		Full	48	42	130		67	80		TSG	18	116	80	110					
1300	48		Full	48	42	130		67	80		TSG	18	116	80	110					
1400	48		Full	48	42	130		67	80		TSG	18	116	80	110					
REMARKS																		MECHANIC'S SIGNATURE		
1500	48		Full	48	42	140		70	90		TSG	18	116	80	120					37 31 45 20
1600	48		Full	48	42	142		70	90		TSG	18	115	80	120					
1700	48		Full	48	42	150		70	92		TSG	18	115	80	120					
1800	48		Full	48	42	150		70	92		TSG	18	115	80	120					
1900	48		Full	48	42	145		70	90		TSG	18	115	80	115					
2000	48		Full	48	42	145		70	90		TSG	18	115	80	115					
2100	48		Full	48	42	140		70	88		TSG	18	115	80	110					
2200	48		Full	48	42	125		70	86		TSG	18	115	80	110					
REMARKS																		MECHANIC'S SIGNATURE		
RUNNING TIME																		TONNAGE PER SHIFT		
																		12 TO 4		
																		4 TO 12		

UNIT NO.		AIR CONDITIONING LOG																		DATE			
2		COOLER						CONDENSER						COMPRESSOR				PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	200	GAL. USED		
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	45		Full	49	42	120		75	84		TSG	3/8	117	83	90								
2400	45		Full	48	42	125		76	84		TSG	3/8	117	83	90								
0100	45		Full	49	42	123		76	85		TSG	3/8	117	83	90								
0200	45		Full	48	42	128		76	85		TSG	3/8	117	83	90								
0300	45		Full	49	42	123		76	84		TSG	3/8	117	83	90								
0400	45		Full	49	42	124		76	84		TSG	3/8	117	83	90								
0500	45		Full	49	42	124		76	84		TSG	3/8	117	83	90								
0600	45		Full	49	42	120		75	84		TSG	3/8	117	83	90								
REMARKS																					MECHANIC'S SIGNATURE		
																					Richard Mansie		
0700				48	41	120		80	85		TSG	3/8	115	80	100								
0800	41		Full	48	41	120		80	85		TSG	3/8	115	80	100								
0900	41		Full	48	41	120		80	85		TSG	3/8	115	80	100								
1000	41		Full	48	41	120		80	85		TSG	3/8	115	80	100								
1100	41		Full	48	41	120		80	85		TSG	3/8	115	80	100								
1200	41		Full	48	41	120		80	85		TSG	3/8	115	80	100								
1300	41		Full	48	41	120		80	85		TSG	3/8	115	80	100								
1400	41		Full	48	41	120		80	85		TSG	3/8	115	80	100								
REMARKS																					MECHANIC'S SIGNATURE		
1500	41		R	48	41	130		78	86		TSG	7/16	115	80	105								
1600	41		R	48	41	130		78	86		TSG	7/16	115	80	105								
1700	41		R	48	41	130		78	86		TSG	7/16	115	80	105								
1800	41		R	48	41	125		76	84		TSG	7/16	115	80	105								
1900	41		R	48	41	125		76	84		TSG	7/16	115	80	100								
2000	41		R	48	41	125		76	84		TSG	7/16	115	80	100								
2100	41		R	48	41	125		76	84		TSG	7/16	115	80	100								
2200	41		R	48	41	125		76	84		TSG	7/16	115	80	100								
REMARKS																					MECHANIC'S SIGNATURE		
RUNNING TIME															TONNAGE PER SHIFT								
															12 TO 4								
															8 TO 12								
															4 TO 8								

UNIT NO.		AIR CONDITIONING LOG														DATE				
# 1 York		COOLER				CONDENSER				COMPRESSOR				PURGE				WATER MAKE UP (READING)		
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE						
2300	48		L 11	50	43	124		69	83		TSO	118	112	80	91					
2400	48		L 11	50	43	118		66	80		TSO	118	116	80	88					
0100	48		L 11	50	43	130		69	84		TSO	118	116	80	91					
0200	48		L 11	49	43	123		68	83		TSO	118	116	80	90					DB 48 64 23
0300	48		L 11	48	43	124		67	81		TSO	118	116	80	88					
0400	48		L 11	48	43	121		67	80		TSO	118	116	80	88					
0500	48		L 11	48	43	125		66	82		TSO	118	115	80	88					
0600	48		L 11	48	43	123		66	81		TSO	118	115	80	88					
REMARKS																				
0700	48		R 11	48	42	130		66	82		TSO	118	115	80	100					Whelan
0800	48		R 11	48	42	130		66	82		TSO	118	115	80	100					25 30 35 23
0900	48		R 11	48	42	130		66	84		TSO	118	115	80	90					
1000	48		R 11	48	42	130		68	84		TSO	118	115	80	90					
1100	48		R 11	50	42	125		66	80		TSO	118	115	80	95					
1200	48		R 11	50	42	125		66	82		TSO	118	115	80	95					
1300	48		R 11	50	42	125		66	82		TSO	118	115	80	95					
1400	48		R 11	50	42	135		80	88		TSO	118	115	80	100					
REMARKS																				
1500	48		Full	49	43	131		67	83		TSO	118	115	80	100					
1600	48		Full	49	43	135		70	90		TSO	118	116	82	102					
1700	48		Full	49	43	140		70	89		TSO	118	116	82	102					43 40 44 23
1800	48		Full	49	43	137		68	81		TSO	118	116	81	100					
1900	48		Full	49	42	133		65	79		TSO	118	115	81	97					
2000	48		Full	49	42	129		63	80		TSO	118	115	80	96					
2100	48		Full	49	42	120		70	79		TSO	118	116	80	77					
2200	48		Full	49	42	119		64	79		TSO	118	116	81	96					
REMARKS																				
RUNNING TIME										MECHANIC'S SIGNATURE										
										NTO										
										TONNAGE PER SHIFT										
										12 TO 1										
										4 TO 12										

UNIT NO.		AIR CONDITIONING LOG																		DATE			
# 2																				12-14-94			
TIME	COOLER				CONDENSER				POSITION CLIP	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)				
	SUCTION	REFRIG. TEMP.	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.			OIL					SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED			
			IN	OUT			IN	OUT		SEARMS TEMP.	LEVEL	TEMP.	PRESSURE										
0700	45		41	48	43	12.5		74	83		78	78	114	82	90					42	48	80	62
0800	45		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
0900	45		41	48	43	12.5		74	83		78	78	114	82	90					42	48	80	62
1000	45		41	48	43	12.5		74	83		78	78	114	82	90					42	48	80	62
1100	45		41	48	43	12.5		74	83		78	78	114	82	90					42	48	80	62
1200	45		41	48	43	12.5		74	83		78	78	114	82	90					42	48	80	62
1300	45		41	48	43	12.5		74	83		78	78	114	82	90					42	48	80	62
1400	45		41	48	43	12.5		74	83		78	78	114	82	90					42	48	80	62
1500	45		41	48	43	12.5		74	83		78	78	114	82	90					42	48	80	62
REMARKS																				MECHANIC'S SIGNATURE			
0700	46		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
0800	46		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
0900	46		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
1000	46		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
1100	46		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
1200	46		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
1300	46		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
1400	46		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
1500	46		41	48	43	12.5		74	82		78	78	114	82	90					42	48	80	62
REMARKS																				MECHANIC'S SIGNATURE			
1600	44		41	50	43	12.5		74	83		78	78	114	82	90					42	48	80	62
1700	44		41	50	43	12.5		74	82		78	78	114	82	90					42	48	80	62
1800	44		41	50	43	12.5		74	82		78	78	114	82	90					42	48	80	62
1900	44		41	50	43	12.5		74	82		78	78	114	82	90					42	48	80	62
2000	44		41	50	43	12.5		74	82		78	78	114	82	90					42	48	80	62
2100	44		41	50	43	12.5		74	82		78	78	114	82	90					42	48	80	62
2200	44		41	50	43	12.5		74	82		78	78	114	82	90					42	48	80	62
REMARKS																				MECHANIC'S SIGNATURE			
																				N.T.O.			
																				TONNAGE PER SHIFT			
																				12 TO 1			
																				12 TO 1			
																				12 TO 1			

UNIT NO.		AIR CONDITIONING LOG														DATE					
1 York		COOLER				CONDENSER				COMPRESSOR				PURGE				WATER MAKE UP (READING)			
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSTHEAT. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS	
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE							
0700	49		Full	48	42.5	134		70	80		TSG	78	116	81	93						
0800	49		Full	48	43	120		67	84		TSG	78	116	81	90						
0900	49		Full	47.5	43	123		67	81		TSG	78	116	81	90						
1000	49		Full	46	43	125		67	80		TSG	78	116	81	90						DR W3 RH DP
1100	49		Full	46	42	118		65	79		TSG	78	116	81	89						3128 81% 27
1200	49		Full	47	42	128		65	81		TSG	78	116	81	89						
1300	49		Full	47	42.5	122		65	84		TSG	78	116	81	90						
1400	49		Full	48	43	120		68	80		TSG	78	116	81	87						
REMARKS																				MECHANIC'S SIGNATURE	
0700	49		Full	48	42.5	119		67	79		TSG	78	117	81	86						whelan
0800	49		Full	48	42.5	131		69.5	83		TSG	78	116	82	92						DR W3 RH DP
0900	49		Full	49	42	127		70	84		TSG	78	116	81	93						3703 53% 27
1000	49		Full	50	42	125		68	82		TSG	78	118	80	95						
1100	49		Full	50	42	130		68	84		TSG	78	118	80	105						
1200	49		Full	50	44	135		66	84		TSG	78	118	80	110						
1300	49		Full	50	44	135		66	84		TSG	78	118	80	110						
1400	49		Full	50	42	135		66	86		TSG	78	118	80	110						
REMARKS																				MECHANIC'S SIGNATURE	
1500	49		Full	51	44	138		68	86		TSG	78	118	83	115						Robert Mays
1600	48		Full	50	43	134		66	85		TSG	78	118	82	113						
1700	48		Full	50	43	135		66	85		TSG	78	118	83	113						
1800	48		Full	50	42.5	129		67	80		TSG	78	118	82	111						DR W3 RH DP
1900	48		Full	50	42	129		65	81		TSG	78	118	81	108						52 41 36 25
2000	49		Full	50	42.5	133		66	84		TSG	78	118	82	106						
2100	48		Full	49	42	126		67	80		TSG	78	118	81	108						
2200	48		Full	50	43	127		65	80		TSG	78	118	81	107						
REMARKS																				MECHANIC'S SIGNATURE	
																				Richard Mays	
TONNAGE PER SHIFT																					
12 TO 1																					
8 TO 12																					

UNIT NO. <u>#2</u>		AIR CONDITIONING LOG																		DATE <u>2-15-94</u>				
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP'S	PURGE			WATER MAKE UP (READING)		COMMENTS		
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED			
				IN	OUT			IN	OUT											IN	OUT		2400	GAL. USED
2300	45		Full	44	43	122		76	82		78	78	115	83	47					41.5	48	89	61	
2400	45		Full	43	43	115		75	80		78	78	115	82	45					41.5	48	89	57	
0100	45		Full	43	43	115		75	80		78	78	115	82	40					41.5	48	87	62	
0200	45		Full	43	43	115		75	80		78	78	115	82	40					41.5	42	86	67	
0300	45		Full	43	43	115		75	80		78	78	115	82	40					41.5	42	83	65	
0400	45		Full	43	43	115		75	80		78	78	115	82	40					41.5	43	82	65	
0500	45		Full	43	43	115		75	80		78	78	115	82	40					41.5	43	81	61	
0600	45		Full	43	43	115		75	80		78	78	115	82	40					41.5	43	78	61	
REMARKS																				MECHANIC'S SIGNATURE <u>Whelan</u>				
0700	44		Full	43	43	121		73	78		78	78	114	82	96					42	47	77	60	
0800	45		Full	43	43	119		73	80		78	78	114	83	97					42	48.5	76	59	
0900	44		Full	43	43	121		74	82		78	78	115	82	98					42	48.5	76	58	
1000	46		Full	50	44	120		74	84		78	78	115	80	100					42	47	80	65	
1100	46		Full	50	44	120		74	82		78	78	115	80	105					42	48	80	65	
1200	46		Full	50	44	125		74	82		78	78	115	80	110					42	49	80	65	
1300	46		Full	50	44	125		74	84		78	78	115	80	110					42	49	80	65	
1400	46		Full	50	44	120		74	84		78	78	115	80	110					42	49	75	60	
REMARKS																				MECHANIC'S SIGNATURE <u>Robert M...</u>				
1500	46		Full	52	44	125		75	84		78	78	115	82	115					42	48.5	83	70	
1600	44		Full	51	43	125		75	84		78	78	115	82	115					43	49	82	68	
1700	44		Full	50	43	125		74	84		78	78	115	82	114					43	49	80	66	
1800	44		Full	50	43	123		74	84		78	78	115	82	113					43	49	79	65	
1900	45		Full	50	42.5	120		75	84		78	78	115	83	112					43	48	78	64	
2000	46		Full	50	43	121		75	84		78	78	115	83	109					43.5	48.5	77	63	
2100	46		Full	50	43	124		74	82		78	78	115	83	109					43	48	76	62	
2200	46		Full	50	43	120		74	82		78	78	115	82	108					43.5	48.5	85	70	
REMARKS																				MECHANIC'S SIGNATURE <u>Richard M...</u>				
RUNNING TIME																				TONNAGE PER SHIFT				
																				12 TO 4 4 TO 8 8 TO 12				

UNIT NO. # 2 1/2 RUC		AIR CONDITIONING LOG																		DATE 3-7-94	
TIME	COOLER				CONDENSER				POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMPS	PURGE				WATER MAKE UP (READING)		
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.	LEVEL	TEMP.	PRESSURE		SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2400 _____ GAL. USED _____		
				IN	OUT			IN												OUT	
2300	41		FULL	49.9	42	120		64	78		T.S.G.	116	80	46						DB WB RH DP 39° 55° 79% 29°	
2400	48		FULL	49.8	42	120		64	78		T.S.G.	116	80	45							
0100	47		FULL	49.7	42	120		64	78		T.S.G.	117	80	46							
0200	47		FULL	49.7	42	120		64	78		T.S.G.	117	80	47							
0300	47		FULL	49	42	124		66	79		T.S.G.	116	80	45							
0400	47		FULL	49	42	125		66	80		T.S.G.	116	80	44							
0500	48		FULL	48.5	42	122		65	78		T.S.G.	116	80	43							
0600	48		FULL	48.5	42	120		64	78		T.S.G.	116	80	42							
REMARKS																					
0700	48		FULL	49	42	129		66	84		T.S.G.	112	81	93							
0800	48		FULL	49	42	129		64	83		T.S.G.	112	81	98							
0900	48		FULL	50	42	126		66	80		T.S.G.	117	81	100							
1000	48		FULL	49	42	125		64	80		T.S.G.	117	80	100						DB WB RH DP 45 42 80 40	
1100	47		FULL	50	42	135		66	84		T.S.G.	117	81	113							
1200	46		FULL	50	46.5	137		64	84		T.S.G.	118	80	125							
1300	47		FULL	51	42.5	150		68	80		T.S.G.	118	83	125							
1400	46		FULL	51	42	140		64	85		T.S.G.	118	80	130							
REMARKS																					
1500	46		1/2	51.5	48	141		66	84		T.S.G.	120	81	139							
1600	46		1/2	52	48.5	150		66	90		T.S.G.	120	81	140							
1700	46		1/2	52	48.5	152		67	90		T.S.G.	120	81	145							
1800	46		1/2	52	48.5	152		66	89		T.S.G.	120	81	148						DB WB RH DP 70 57 95 48	
1900	46		1/2	51.5	48	150		66	84		T.S.G.	120	81	148							
2000	47		1/2	50.5	48	148		66	88		T.S.G.	120	81	148							
2100	46		1/2	50	45	134		65	85		T.S.G.	118	81	127							
2200	46		1/2	50	42	125		64	83		T.S.G.	118	81	120							
REMARKS																					
RUNNING TIME										MECHANIC'S SIGNATURE Richard Francis											
										WHILE ON											
										TONNAGE PER SHIFT 18 TO 24 _____ 24 TO 30 _____ 30 TO 36 _____											

WRAMC FORM 367
15 SEP 1981

UNIT NO.		AIR CONDITIONING LOG														DATE							
#2 YORK		COOLER				CONDENSER				COMPRESSOR				PURGE				WATER MAKE UP (READING)					
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CLIP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS			
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	44		FULL	50	42.5	120		72	80		T.S.G.	74	112	82	99					41	48	70	60
2400	44		FULL	50	42.5	119		72	80		T.S.G.	74	112	82	99					42	48	69	60
0100	44		FULL	50	42.5	119		72	80		T.S.G.	74	112	82	105					42	48	80	69
0200	44		FULL	50	42	120		73	82		" "	74	112	82	104					42	48	79	68
0300	40		FULL	50	42	120		73	82		T.S.G.	74	114	82	104					42	48	78	67
0400	44		FULL	49.5	42	119		73	81		" "	74	113	82	103					41.5	48	77	66
0500	44		FULL	49.5	42	119		73	81		T.S.G.	74	113	82	102					41.5	48	76	65
0600	44		FULL	49.5	42	120		73	81		" "	74	112	82	104					42	48	76	65
MECHANIC'S SIGNATURE																							
0700	45		FULL	51	43	120		74	84		T.S.G.	74	115	82	105					42	49	71	60
0800	44		FULL	50.5	42	125		75	84		T.S.G.	74	115	82	115					42	49	80	69
0900	44		FULL	51	42.5	124		74	84		T.S.G.	74	115	82	115					42	49	77	67
1000	44		FULL	50.5	42.5	121		74	83		T.S.G.	74	115	82	115					42	49	76	65
1100	44		FULL	50	43	123		74	84		T.S.G.	74	115	82	115					42	49	75	64
1200	44		FULL	50.5	42	125		74	84		T.S.G.	74	115	82	120					42	49	73	62
1300	44		FULL	50.5	42	125		74	84		T.S.G.	74	115	82	118					42	49	72	61
1400	44		FULL	50	42	125		74	84		T.S.G.	74	115	82	117					42	49	71	60
MECHANIC'S SIGNATURE																							
1500	43		FULL	50	42	125		74	83		T.S.G.	74	116	82	117					42	49	79	69
1600	43		FULL	50	42	126		75	83		T.S.G.	74	115	82	116					42	49	80	69
1700	43		FULL	50	42	126		76	84		T.S.G.	74	112	82	116					42	47	72	61
1800	43		FULL	50	42	125		74	83		T.S.G.	74	112	82	117					42	48	76	65
1900	43		FULL	50	42	123		73	79		T.S.G.	74	112	82	111					42	48	77	66
2000	43		FULL	49	42	120		74	80		T.S.G.	74	113	82	107					42	47	78	68
2100	43		FULL	49	42	119		77	81		T.S.G.	74	114	82	105					42	47	79	69
2200	43		FULL	49	42	118		73	82		T.S.G.	74	115	82	101					42	47	79	69
MECHANIC'S SIGNATURE																							
REMARKS										RUNNING TIME					TONNAGE PER SHIFT								
															12 TO 4 4 TO 12								

UNIT NO.		AIR CONDITIONING LOG															DATE				
A/C-1		VORL															4-18-94				
TIME	COOLER				CONDENSER				POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP'S	PURGE			WATER MAKE UP (READING)	COMMENTS		
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		OIL					SUCTION PRESSURE	DISCHARGE	OIL LEVEL			REFR. LEVEL	
				IN	OUT			IN		OUT	BEARING TEMP.	LEVEL	TEMP.								PRESSURE
2300	47		Full	48	47	125		68	81		TSG	112	116	81	91				DB WB RH DP		
2400	47		Full	48	42	125		67	81		TSG	110	116	81	91			62 59 31 34			
0100	47		Full	48	42	125		67	80		TSG	110	116	81	90						
0200	47		Full	48	42	125		68	80		TSG	110	116	81	90						
0300	47		Full	48	42	125		68	80		TSG	110	116	80	87						
0400	47		Full	47	42	121		67	80		TSG	110	116	80	86						
0500	47		Full	47	42	120		67	79		TSG	110	117	80	85						
0600	47		Full	47	42	119		67	79		TSG	110	117	80	84						
REMARKS																		MECHANIC'S SIGNATURE			
0700	47	=	Full	47	42	118	=	70	80	=	TSG	110	115	80	90			53 40 53 35			
0800	47	=	Full	47	42	118	=	70	80	=	TSG	110	115	80	90						
0900	47	=	Full	47	42	118	=	70	80	=	TSG	110	115	80	90						
1000	47	=	Full	47	42	118	=	70	80	=	TSG	110	115	80	90						
1100	47	=	Full	47	42	118	=	70	80	=	TSG	110	115	80	90						
1200	47	=	Full	47	42	118	=	70	80	=	TSG	110	115	80	90						
1300	47	=	Full	47	42	118	=	70	80	=	TSG	110	115	80	90						
1400	47	=	Full	47	42	118	=	70	80	=	TSG	110	115	80	90						
REMARKS																		MECHANIC'S SIGNATURE			
1500	47	X	Full	47	42	118	X	67	80	X	TSG	110	115	80	120						
1600	47	X	Full	47	42	118	X	66	80	X	TSG	110	115	80	122						
1700	47		Full	47	42	118		66.5	80		TSG	110	115	80	117			DB WB RH DP			
1800	47		Full	47	42	118		67	80		TSG	110	115	80	109			72° 56° 33% 49°			
1900	46		Full	47	42	118		67.5	80		TSG	110	115	80	110						
2000	46		Full	47	42	118		70	80		TSG	110	115	80	112						
2100	47		Full	47	42	118		69	80		TSG	110	115	80	104						
2200	47		Full	47	42	118		69	80		TSG	110	115	80	98						
REMARKS																		MECHANIC'S SIGNATURE			
																		24403			
																		Bob Meyer			
																		TONNAGE PER SHIFT			
																		12 TO 1			
																		8 TO 12			
																		4 TO 8			

UNIT NO.		AIR CONDITIONING LOG															DATE					
A/C-2		YORK															7-18-94					
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP'S	PURGE				WATER MAKE UP (READING)	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED	
				IN	OUT			IN	OUT													IN	OUT
2300	44		FULL	49	42	119		74	80		78	7/8	114	82	87							
2400	44		FULL	49	42	119		74	80		78	7/8	114	82	87							
0100	44		FULL	49	42	120		75	81		78	7/8	114	82	87							
0200	43		FULL	49	42	119		75	81		78	7/8	113	81	86							
0300	43		FULL	49	42	119		74	80		78	7/8	113	81	85							
0400	44		FULL	48	42	118		74	81		78	7/8	114	81	84							
0500	44		FULL	48	42	118		73	80		78	7/8	114	82	83							
0600	44		FULL	47	42	118		74	80		78	7/8	114	82	81							
REMARKS																				MECHANIC'S SIGNATURE		
0700	44		FULL	49	42	118		71	80		78	7/8	115	85	85							
0800	44		FULL	49	42	118		71	80		78	7/8	115	85	85							
0900	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
1000	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
1100	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
1200	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
1300	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
1400	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
1500	43		FULL	50	43	120		71	80		78	7/8	115	85	90							
1600	43		FULL	50	43	120		71	80		78	7/8	115	85	90							
1700	43		FULL	50	43	120		71	80		78	7/8	115	85	90							
1800	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
1900	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
2000	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
2100	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
2200	44		FULL	50	43	120		71	80		78	7/8	115	85	90							
REMARKS																				MECHANIC'S SIGNATURE		
															2440		B ab m		TONNAGE PER SHIFT			
																			12 TO 8			
																			8 TO 4			
																			4 TO 12			

UNIT NO.		AIR CONDITIONING LOG															DATE							
A/C-4		-CARRIEN															4-18-94							
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMPS	PURGE				WATER MAKE UP (READING)			
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		OIL				SUCTION PRESSURE	DISCHARGE		OIL LEVEL	REFR. LEVEL	2400					
				IN	OUT			IN	OUT	BEARING TEMP.		LEVEL	TEMP.						PRESSURE	GAL. USED	COMMENTS			
2300	16	38	1	49	43	3	90	73	80		145	3	129	20	80	2	0	44	78	42	47	88	67	
2400	16	38	1	49	43	3	89	73	80		145	3	129	20	79	2	0	"	"	42	47	87	66	
0100	16	38	1	48	43	3	89	73	81		144	3	129	20	79	"	0	"	"	42	47	86	65	
0200	16	38	1	48	43	5.5	91	74	81		144	3	129	20	79	0	FF	"	"	42	47	87	67	
0300	16	38	1	48	43	7.8	88	74	80		144	3	130	20	77	"	"	"	"	42	47	87	67	
0400	16	37	1	47	4	4	87	73	79		143	3	129	20	76	"	"	"	"	42	46	87	67	
0500	16	37	1	47	4	3	89	73	78		144	3	129	20	75	"	"	"	"	42	46	86	66	
0600	16	37	1	47	4	4	87	74	77		144	3	129	20	73	"	"	"	"	42	46	85	65	
REMARKS																								
0700	16	38	1	50	42	5	90	70	75	=	146	3	129	20	75	10	10	Full	20	42	46	80	60	
0800	16	38	1	49	42	5	90	70	75	=	146	3	129	20	75	10	10	Full	20	42	46	80	60	
0900	16	38	1	49	42	5	90	70	75	=	146	3	130	20	75	10	10	Full	20	42	46	80	60	
1000	16	40	1	49	43	5	90	70	80	=	146	3	130	20	75	10	10	Full	20	42	46	80	60	
1100	16	38	1	49	40	5	90	70	80	=	146	3	130	20	75	10	10	Full	20	42	46	80	60	
1200	16	37	1	49	40	5	90	70	80	=	146	3	130	20	75	10	10	Full	20	42	46	80	60	
1300	16	36	1	50	40	5	90	70	80	=	146	3	130	20	75	10	10	Full	20	42	46	80	60	
1400	16	36	1	50	42	5	90	70	80	=	146	3	130	20	75	10	10	Full	20	42	46	80	60	
REMARKS																								
1500	16"	37.5	1"	51.5	43.5	5.2	91	75	86.5	X	147	3"	130	20.5	107	10	F	F	Phase	42	49.5	90	70	
1600	16"	38	1"	51.5	44	5.2	90.5	80	88	X	147	3"	130	21	108	10	F	F	"	42	49.5	89	70	
1700	16"	38	1"	51	44	6	92.5	79	89	X	147	3"	130	21	110	10	F	F	"	42	49	89	70	
1800	16"	37	1"	50.5	43	5.2	91	75	86		146	3"	129	21	100	10	F	F	"	42	48.5	88	68	
1900	16"	37	1"	50	44	5	90	72.5	85		146	3"	130	20.5	98	10	F	F	"	42	48.5	86	66	
2000	16"	38.5	1"	50	44	5.5	91	76	84		146	3"	130	20.5	100	10	F	F	"	42	48	85	65	
2100	16"	37.5	1"	49.5	44	5	90	75.5	83		145	3"	129	20	95	10	F	F	"	42	47.5	85	65	
2200	16"	37	1"	49	43	5.5	89.5	74	82		144	3"	129	20	96	10	F	F	"	42	47	84	64	
REMARKS																								
RUNNING TIME										MECHANIC'S SIGNATURE										TONNAGE PER SHIFT				
2-1/450										B mays										12 TO 8 8 TO 4 4 TO 12				

UNIT NO.		AIR CONDITIONING LOG																		DATE		
A/C-170A11																				4-19-94		
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMPS.	PURGE			WATER MAKE UP (READING)		
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		OIL		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFRIG. LEVEL	2400	GAL. USED	
				IN	OUT			IN	OUT													IN	OUT
2300	47		Full	49	42	127		67	85		TSG	118	116	81	100						DB WB RH DP	
2400	47		Full	49	42	129		68	86		TSG	118	116	81	101						64 60 52 46	
0100	47		Full	48	42	136		68	85		TSG	118	117	81	100							
0200	47		Full	48	42	130		67	85		TSG	118	116	81	99							
0300	47		Full	48	42	129		67	85		TSG	118	116	81	100							
0400	47		Full	48	42	129		68	87		TSG	118	116	81	100							
0500	47		Full	48	42	120		68	86		TSG	118	116	81	101							
0600	47		Full	48	42	130		67	85		TSG	118	116	81	101							
REMARKS																					MECHANIC'S SIGNATURE	
0700 47 = Full 49 42 125 = 70 80 = TSG 118 117 80 100 0800 47 = Full 49 42 125 = 70 80 = TSG 118 117 80 100 0900 47 = Full 49 42 125 = 70 80 = TSG 118 117 80 100 1000 47 = Full 49 42 130 = 70 80 = TSG 118 117 80 100 1100 47 = Full 49 42 135 = 70 80 = TSG 118 117 80 100 1200 47 = Full 49 42 135 = 70 80 = TSG 118 117 80 100 1300 47 = Full 49 42 135 = 70 80 = TSG 118 117 80 100 1400 47 = Full 49 42 135 = 70 80 = TSG 118 117 80 100																					VTO	
REMARKS																					MECHANIC'S SIGNATURE	
1500 48 = Full 52 43 140 = 70 87 = TSG 118 117 83 128 1600 47 = Full 52 43 145 = 70 87 = TSG 118 117 83 143 1700 47 = Full 53 43 150 = 70 90 = TSG 118 120 83 143 1800 48 = Full 53 44 150 = 70 90 = TSG 118 120 83 145 1900 48 = Full 52 43 145 = 70 88 = TSG 118 120 83 130 2000 48 = Full 52 43 145 = 70 87 = TSG 118 120 83 130 2100 48 = Full 52 43 142 = 69 88 = TSG 118 120 83 127 2200 48 = Full 52 43 140 = 69 88 = TSG 118 120 83 128																					Hump	
REMARKS																					MECHANIC'S SIGNATURE	
R. Morait																					TONNAGE PER SHIFT	
																					12 TO 1	
																					1 TO 12	

UNIT NO.		AIR CONDITIONING LOG															DATE						
A/C-2 YORK		COOLER					CONDENSER					COMPRESSOR					PURGE					WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION C/P. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS			
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	44		Full	50	42	120		75	83		TSG	7/8	115	82	99								
2400	44		Full	50	42	120		75	83		TSG	7/8	115	82	100								
0100	44		Full	50	42	115		74	82		TSG	7/8	115	82	100								
0200	44		Full	50	42	115		75	83		TSG	7/8	114	82	99								
0300	44		Full	50	42	117		76	83		TSG	7/8	114	82	99								
0400	44		Full	50	42	120		76	84		TSG	7/8	115	82	98								
0500	44		Full	50	42	120		77	83		TSG	7/8	114	82	98								
0600	44		Full	50	42	120		77	83		TSG	7/8	114	82	99								
REMARKS																				MECHANIC'S SIGNATURE			
0700	44		Full	50	42	120		76	80		TSG	7/8	115	80	100								
0800	44		Full	50	42	120		77	80		TSG	7/8	115	80	100								
0900	44		Full	50	42	120		77	80		TSG	7/8	115	80	100								
1000	44		Full	50	42	120		77	80		TSG	7/8	115	80	100								
1100	44		Full	50	42	120		77	80		TSG	7/8	115	80	100								
1200	44		Full	50	42	120		77	80		TSG	7/8	115	80	100								
1300	44		Full	50	42	120		77	80		TSG	7/8	115	80	100								
1400	44		Full	50	42	120		77	80		TSG	7/8	115	80	100								
REMARKS																				MECHANIC'S SIGNATURE			
1500	43		Full	53	42	138		76	86		TSG	7/8	117	81	140								
1600	43		Full	53	42	135		76	86		TSG	7/8	117	81	143								
1700	43		Full	53.5	42.5	137		75	85		TSG	7/8	117	81	144								
1800	44		Full	53.5	42	140		76	86		TSG	7/8	117	82	145								
1900	43		Full	52	41.5	135		75	85		TSG	7/8	117	81	140								
2000	47		Full	52	43	129		75	85		TSG	7/8	117	83	125								
2100	47		Full	52	42	130		76	86		TSG	7/8	117	83	125								
2200	44		Full	51	42	126		75	85		TSG	7/8	117	82	125								
REMARKS																				MECHANIC'S SIGNATURE			
																				TONNAGE PER SHIFT			
																				12 TO 4			
																				4 TO 8			
																				8 TO 12			

WYAMC FORM 367
11 SEP 1981

UNIT NO.		#1/AL		AIR CONDITIONING LOG										DATE 5/10/9					
COOLER						CONDENSER				COMPRESSOR				PURGE				WATER MAKE UP (READING)	
TIME	SUCTION GPM	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE TEMP.	CONDENSER TEMP.	WATER TEMP.	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR TAPS	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS
				IN	OUT														
2500	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
0100	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
0200	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
0300	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
0400	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
0500	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
0600	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
REMARKS																			
0700	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
0800	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
0900	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
1000	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
1100	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
1200	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
1300	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
1400	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
REMARKS																			
1500	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
1600	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
1700	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
1800	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
1900	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
2000	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
2100	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
2200	48	Full	Full	46	47	123	78	85	112	112	80	80	80						
REMARKS																			
RUNNING TIME																			
MECHANIC'S SIGNATURE																			
TONNAGE PER SHIFT																			

TONNAGE PER SHIP	12 TO 2
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UNIT NO.		AIR CONDITIONING LOG																		DATE			
#441/C		COOLER						CONDENSER						COMPRESSOR						PURGE		WATER MAKE UP (READING)	
TIME	GPM	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS		
					IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE								
2300	16	37	1	50	82	6	94	71	80	—	146	3	130	20	100	1	70	34	1/2				
2400	16	37	1	50	82	6	94	71	80	—	146	3	130	20	100	1	70	34	1/2				
0100	16	37	1	50	82	6	94	71	80	—	146	3	130	20	91	1	70	34	1/2	65 1082-57			
0200	16	37	1	50	82	6	94	71	80	—	146	3	130	20	91	1	70	34	1/2				
0300	16	36	1	50	82	6	94	71	80	—	146	3	130	20	91	1	70	34	1/2				
0400	16	36	1	50	82	6	94	71	80	—	146	3	130	20	91	1	70	34	1/2				
0500	16	36	1	50	82	6	94	71	80	—	146	3	130	20	91	1	70	34	1/2				
0600	16	36	1	50	82	6	94	71	80	—	146	3	130	20	91	1	70	34	1/2				
MECHANIC'S SIGNATURE																							
0700	16.5	36	1	50	82	5	90	80	86	—	145	3	128	20	85	1	46	44	1/2				
0800	16.5	36	1	50	82	5	90	79	85	—	145	3	128	21	90	1	46	44	1/2				
0900	17	35	1	50	82	5	90	79	86	—	145	3	128	21	95	1	52	42	1/2				
1000	17	35	1	50	82	5.5	91.5	79	86	—	145	3	130	21	95	1	58	42	1/2				
1100	17	36	1	50	82	5.5	91.5	79	86	—	145	3	129	21	85	2	60	42	1/2				
1200	17	36	1	50	82	5.2	91	80	86	—	145	3	129	21	95	2	64	42	1/2				
1300	17	36	1	50	82	5.2	91	80	86	—	145	3	130	21	95	2	68	42	1/2				
1400	17	36	1	50	82	4	87	77	84	—	147	3	130	21	90	1	70	42	1/2				
MECHANIC'S SIGNATURE																							
1500	17	36	1	51	82	4	87	76	83	—	149	4	130	20	95	1	72	42	1/2				
1600	17	36	1	51	82	5.5	93	76	85	—	149	4	130	20	95	1	72	42	1/2				
1700	17	36	1	51	82	5.5	93	76	85	—	149	4	130	20	95	1	72	42	1/2				
1800	17	36	1	51	82	5.5	93	76	85	—	149	4	130	20	99	1	72	42	1/2				
1900	17	36	1	50	82	5.5	90	78	86	—	148	4	130	20	86	1	71	42	1/2				
2000	17	36	1	50	82	5	90	78	87	—	148	4	130	20	84	2	72	42	1/2				
2100	17	36	1	49	82	4	87	78	83	—	146	4	130	20	84	2	72	42	1/2				
2200	17	36	1	49	82	3.5	85	76	83	—	146	4	130	20	80	2	72	42	1/2				
MECHANIC'S SIGNATURE																							
REMARKS												RUNNING TIME				MECHANIC'S SIGNATURE				TONNAGE PER SHIFT			
																W. H. L. HAN							

UNIT NR. # 601C		AIR CONDITIONING LOG																		DATE 5-10-94			
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMPS	PURGE				WATER MAKE UP (READING)		
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		OIL				SUCTION PRESSURE	DISCHARGE		OIL LEVEL	REFR. LEVEL	2000	GAL. USED			
				IN	OUT			IN	OUT	BEARING TEMP.		LEVEL	TEMP.								PRESSURE		
2300	16	36	1	52	43	5	90	---	90	---	128	3	130	20	90	4	61	61	12	12	48	100	01
2400	16	36	1	52	43	5	90	---	90	---	128	3	130	20	90	4	61	61	12	12	48	100	01
0100	16	36	1	52	43	5	90	---	90	---	128	3	130	20	90	4	61	61	12	12	48	100	01
0200	16	36	1	52	43	5	90	---	90	---	128	3	130	20	90	4	61	61	12	12	48	100	01
0300	16	36	1	52	43	5	90	---	90	---	128	3	130	20	90	4	61	61	12	12	48	100	01
0400	16	36	1	52	43	5	90	---	90	---	128	3	130	20	90	4	61	61	12	12	48	100	01
0500	16	36	1	52	43	5	90	---	90	---	128	3	130	20	90	4	61	61	12	12	48	100	01
0600	16	36	1	52	43	5	90	---	90	---	128	3	130	20	90	4	61	61	12	12	48	100	01
MECHANIC'S SIGNATURE																							
0700	16	37	1	51	43	5.5	88	---	87	---	152	3	130	20	80	4	68	38	38	42	47	95	65
0800	16.5	37	1	51	43	5.5	88	---	86	---	152	3	130	20	80	4	68	38	38	42	47	95	65
0900	17	36	1	52	43	5	90	---	88	---	158	3	130	20	90	4	68	38	38	42	47	95	65
1000	17	36	1	52	43	5.5	91.5	---	90	---	158	3	130	20	90	5	68	Full	38	42	48	82	61
1100	17	36	1	52	43	5.5	91.5	---	90	---	158	3	130	20	90	5	68	Full	38	42	48	82	61
1200	17	36	1	52	43	5.2	91	---	89	---	158	3	130	20	90	5	68	Full	38	42	48	80	62
1300	17	36	1	53	43	5.5	91.5	---	89	---	158	3	130	20	90	5	68	Full	38	42	48	80	62
1400	17	36	1	53	43	5.5	91.5	---	88	---	160	3	130	20	90	5	68	Full	38	42	48	80	62
MECHANIC'S SIGNATURE																							
1500	17"	32.4	1"	52.5	43	4.5	82	---	85	---	160	4"	130	20	95	4"	69	Full	1/2	42	48	82	64
1600	17"	37	1"	52.5	43	4.1	81	---	88	---	160	4"	130	20	99	4"	69	Full	1/2	42	48	82	64
1700	17"	37	1"	52.5	43	5	76	---	88	---	160	4"	130	20	99	4"	69	Full	1/2	42	48	82	64
1800	17"	37	1"	52	42	4.1	81	---	86	---	160	4"	130	20	99	4"	69	Full	1/2	42	48	82	64
1900	17"	37	1"	52	42.5	4	82	---	86	---	159	4"	130	20	97	4"	69	Full	1/2	42	48	82	64
2000	17"	37	1"	52	43	5.5	91	---	88	---	159	4"	130	20	90	5"	68	Full	1/2	42	48	82	64
2100	16.5	36	3/4	51.5	43	4	82	---	85	---	158	4"	130	20	85	5"	68	Full	1/2	42	48	82	64
2200	16.1	32.4	3/4	51	42.5	3.4	83	---	82	---	158	4"	130	20	84	5"	68	Full	1/2	42	48	82	64
MECHANIC'S SIGNATURE																							
RUNNING TIME															WHOLE HAN					TONNAGE PER SHIFT			
																				12 TO 8 8 TO 4 4 TO 12			

UNIT NO.		AIR CONDITIONING LOG															DATE			
#1 York		COOLER					CONDENSER					COMPRESSOR					PURGE		WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE						
2300	45		Full	52	42	150		82	94		BSG	Full	120	80	150					DB WB RH DP
2400	45		Full	52	42	150		82	94		BSG	Full	120	80	150					78° 75° 47% 72°
0100	45		Full	52	41	149		82	94		BSG	Full	120	80	150					
0200	45		Full	52	41	149		82	94		BSG	Full	120	80	150					
0300	44		Full	51.5	40	149		82	94		BSG	Full	120	80	146					
0400	44		Full	51.5	40	149		82	94		BSG	Full	120	80	146					
0500	44		Full	52	41.5	150		81	97		BSG	Full	120	80	150					
0600	44		Full	52	41.5	150		81	97		BSG	Full	120	80	150					
MECHANIC'S SIGNATURE																				
0700	44		Full	51	41.5	150		81	97		BSG	Full	117	80	151					
0800	44		Full	53	42	150		82	99		BSG	Full	117	80	150					
0900	45		Full	53	43	150		81	98		BSG	Full	116	81	149					78 73 93 76
1000	45		Full	53	43	150		82	97		BSG	Full	115	81	149					
1100	46		Full	54	44	151		84	98		BSG	Full	117	81	149					
1200	47		Full	54	42.5	151		84	98		BSG	Full	119	81	150					
1300	45		Full	53	42	150		84	98		BSG	Full	119	81	150					
1400	45		Full	53	42	150		84	98		BSG	Full	121	81	149					
MECHANIC'S SIGNATURE																				
1500	46		Full	54	43	151		86	98		BSG	Full	119	81	150					
1600	46		Full	54	43	150		85	98		BSG	Full	122	80	150					
1700	46		Full	53	42	149		84	96		BSG	Full	121	80	145					DB WB RH DP
1800	46		Full	52	42	139		80	92		BSG	Full	118	82	145					87 72 50 65
1900	47		Full	51	42	134		78	90		BSG	Full	118	82	107					
2000																				
2100	47		Full	52	42.5	135		78	92		BSG	Full	118	83	110					checking Bldg 54-49
2200	47		Full	52.5	43	133		78	92		BSG	Full	118	83	110					
MECHANIC'S SIGNATURE																				
P. Marzio															TONNAGE PER SHIFT					
															12 TO 1					
															1 TO 12					

UNIT NO.		AIR CONDITIONING LOG														DATE					
#2 York		COOLER				CONDENSER				COMPRESSOR				PURGE				WATER MAKE UP (READING)			
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS	
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE							
2300	42		5.4	53	42	146		87	94		TSG	72	117	80	150						
2400	42		5.4	53	42	146		87	94		TSG	72	117	80	150						
0100	42		5.4	53	42	146		86	94		TSG	72	116	81	150						
0200	42		5.4	53	42	146		86	94		TSG	72	116	81	150						
0300	42		5.4	53	42	146		86	94		TSG	72	116	81	150						
0400	42		5.4	53	42	146		86	94		TSG	72	116	81	150						
0500	42		5.4	53	42	146		86	94		TSG	72	116	81	150						
0600	42		5.4	53	42	146		86	94		TSG	72	116	81	150						
0700	43		FULL	54	43	146		86	93		TSG	70	115	81	148						
0800	42		FULL	54	42.5	147		86	93		TSG	70	115	81	149						
0900	42		FULL	54	43	147		86	93		TSG	70	116	81	148						
1000	43		FULL	54.5	43	148		87	93		TSG	70	117	81	147						
1100	44		FULL	55	44	150		88	94		TSG	70	118	81	148						
1200	44		FULL	55	42	152		88	94		TSG	70	118	81	150						
1300	43		FULL	54	41.2	146		87	93		TSG	70	117	81	146						
1400	42		FULL	53	41.7	146		87	93		TSG	70	118	81	146						
1500	44		FULL	55	43	148		88	94		TSG	70	119	81	150						
1600	44		FULL	54	43	150		88	94		TSG	70	119	81	150						
1700	43		FULL	53	42	146		88	94		TSG	70	119	80	147						
1800	44		FULL	54	42	145		87	90		TSG	70	118	82	143						
1900	47		FULL	51	42	130		82	87		TSG	70	117	81	108						
2000																					
2100	44		FULL	52	42.5	134		84	90		TSG	70	117	82	110						checking Bldg 54-47
2200	44		FULL	52	43	135		84	90		TSG	70	117	82	113						

REMARKS

MECHANIC'S SIGNATURE

MECHANIC'S SIGNATURE

MECHANIC'S SIGNATURE

RUNNING TIME

TONNAGE PER SHIFT

12 TO 1

8 TO 4

4 TO 12

UNIT NO.		AIR CONDITIONING LOG																		DATE			
# 4 carrier		COOLER						CONDENSER						COMPRESSOR				PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS			
				IN	OUT			IN	OUT														
2300	16.2	57	1	55	44.5	10	103	87	95		147	4	130	22	129								
2400	16.2	57	1	55	44.5	10	103	87	95		147	4	130	22	129								
0100	16.2	57	1	54.5	44	10	103	87	95		147	4	130	22	129								
0200	16.2	57	1	54.5	44	10	103	87	95		147	4	130	22	129								
0300	17	56.5	1	54	44	10	103	87	95		147	4	130	22	129								
0400	17	56.5	1	54	44	10	103	87	95		147	4	130	22	129								
0500	17	56.5	1	54	44.5	10	103	87	95		148	4	130	22	129								
0600	16.2	57	1	54	44.5	10	103	87	95		148	4	130	22	129								
MECHANIC'S SIGNATURE																							
0700	16.5	37	1	55	45	10	103	87	95		148	4	130	22	124								
0800	16.5	37	1	55	45	10	103	87	95		149	4	130	22	125								
0900	16.5	37	1	55	45	10	103	87	95		149	4	130	22	125								
1000	16.1	38	1	56	45	10	103	87	96		149	4	130	22	129								
1100	16.1	38	1	56	45	11	104	88	97		149	4	130	22	131								
1200	16.1	38	1	56	45	11	105	88	97		149	4	130	22	131								
1300	17	37	1	54	45	10	103	87	97		149	4	130	22	125								
1400	17	36.5	1	54	44.5	10	103	87	97		148	4	130	22	125								
MECHANIC'S SIGNATURE																							
1500	16.5	37	1	55.5	44.5	10	103	90	95		147	3	131	22	126								
1600	17	37	1	55.5	44	10	103	90	96		147	3	132	22	127								
1700	17	36.5	1	57	43	10	103	90	95		147	3	130	22	125								
1800	17	36	1	53	42	9	100	86	94		147	3	130	22	115								
1900	17	36	1	52	41.5	8	98	84	92		145	3	129	21	112								
2000																							
2100	17	37	1	53	42.5	5	90	85	94		144	3	134	21	113					Checking Bldg 54 + 49			
2200	17	36	1	53	42.5	9	100	85	96		144	3	134	22	117								
MECHANIC'S SIGNATURE																							
R. Marais															TONNAGE PER SHIFT								
															12 TO 5								
															5 TO 12								

UNIT NO.		AIR CONDITIONING LOG																		DATE					
#6 Carrier		COOLER						CONDENSER						COMPRESSOR						PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP'S	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	Temp	Press				
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE											
2300	16"	39"	1"	56	44.5	7.8	97			98	157	4"	132	20	130	8#	64	FULL	3/4	43	54	92	64		
2400	16"	39"	1"	56	44.5	7.8	97			98	157	4"	132	20	130	8#	64	FULL	3/4	43	54	92	64		
0100	16"	39"	1"	56	44.5	7.8	97			98	157	4"	133	20	130	8#	63	FULL	3/4	44	53	93	63		
0200	16"	39"	1"	56	44.5	7.8	97			98	157	4"	133	20	128	8#	63	FULL	3/4	44	53	93	63		
0300	16"	39"	1"	56	44.5	7.8	97			98	157	4"	133	20	128	8#	62	FULL	3/4	44	53	93	63		
0400	16"	39"	1"	56	44.5	7.8	97			98	157	4"	133	20	128	8#	62	FULL	3/4	44	53	93	63		
0500	16"	39"	1"	56	44.5	7.8	97			98	157	4"	133	20	128	8#	62	FULL	3/4	44	53	93	63		
0600	16"	39"	1"	56	44.5	7.8	97			98	157	4"	133	20	128	8#	62	FULL	3/4	44	53	93	63		
MECHANIC'S SIGNATURE																					R. Marais				
0700	16	39	1"	57	45	7	95			97	157	4	131	20	125	7	59	FULL	3/4	43	54	92	64		
0800	16	39	1"	57	45	6	93			98	157	4	131	20	125	7	59	FULL	3/4	44	54	92	64		
0900	16	40	1"	57	46	7.5	96			99	158	4	131	21	130	7	59	FULL	3/4	43	54	92	63		
1000	16	40	1"	58	47	8	97			100	158	4	131	22	129	8	59	FULL	3/4	46	55	90	63		
1100	16	41	1"	58	47	8	98			100	157	4	131	22	133	8	59	FULL	3/4	47	55	99	63		
1200	16	39	1"	57	45	8	97			99	157	4	131	22	131	8	60	FULL	3/4	45	54	92	63		
1300	16.1	38	1"	56	44	7	93			99	157	4	131	22	127	8	60	FULL	3/4	44	54	90	63		
1400	16.1	38	1"	55	44	7.2	96			98	157	4	131	22	124	8	60	FULL	3/4	43	54	91	63		
MECHANIC'S SIGNATURE																					MTO				
1500	16	39	1"	57	46	7	95			99	157	3	133	22	125	7	60	FULL	3/4	44.5	54	92	64		
1600	16	39	1"	57	46.5	7	95			98	157	3	133	22	125	7	62	FULL	3/4	44.5	54	94	67		
1700	16	38	1"	56	46	7	95			97	159	3	132	22	120	7	63	FULL	3/4	44	53	93	66		
1800	17	37	1"	54	43	6.9	94			96	158	3	132	22	120	6	63	FULL	3/4	42	51	90	60		
1900	17	37	1"	53	42	7	95			95	157	3	132	21	115	6	64	FULL	3/4	42	51	87	59		
2000																									
2100	17	37	1"	54	42	7	95			96	157	3	132	22	117	6	62	FULL	3/4	42	51	90	60		
2200	17	37	1"	54	43	7	95			97	157	3	132	22	117	6	62	FULL	3/4	42	51	87	59		
MECHANIC'S SIGNATURE																					R. Marais				
TONNAGE PER SHIFT																					15 TO 1				

UNIT NO.		AIR CONDITIONING LOG																		DATE		
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMPS.	PURGE				WATER MAKE UP (READING)	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED	
				IN	OUT			IN	OUT													
2300	42			52	42	112		22	87		TS2	28	114	81	100							
2400	42			52	42	112		22	87		TS2	28	114	81	100							
0100	42			52	42	112		22	87		TS2	28	114	81	100							
0200	42			52	42	112		22	87		TS2	28	114	81	100							
0300	42			52	42	112		22	87		TS2	28	114	81	100							
0400	42			52	42	112		22	87		TS2	28	114	81	100							
0500	42			52	42	112		22	87		TS2	28	114	81	100							
0600	42			52	42	112		22	87		TS2	28	114	81	100							
REMARKS																				MECHANIC'S SIGNATURE		
0700	42			52	42	112		22	87		TS2	28	114	81	100							
0800	42			52	42	112		22	87		TS2	28	114	81	100							
0900	42			52	42	112		22	87		TS2	28	114	81	100							
1000	42			52	42	112		22	87		TS2	28	114	81	100							
1100	42			52	42	112		22	87		TS2	28	114	81	100							
1200	42			52	42	112		22	87		TS2	28	114	81	100							
1300	42			52	42	112		22	87		TS2	28	114	81	100							
1400	42			52	42	112		22	87		TS2	28	114	81	100							
REMARKS																				MECHANIC'S SIGNATURE		
1500	42			52	42	112		22	87		TS2	28	114	81	100							
1600	42			52	42	112		22	87		TS2	28	114	81	100							
1700	42			52	42	112		22	87		TS2	28	114	81	100							
1800	42			52	42	112		22	87		TS2	28	114	81	100							
1900	42			52	42	112		22	87		TS2	28	114	81	100							
2000	42			52	42	112		22	87		TS2	28	114	81	100							
2100	42			52	42	112		22	87		TS2	28	114	81	100							
2200	42			52	42	112		22	87		TS2	28	114	81	100							
REMARKS																				MECHANIC'S SIGNATURE		
										RUNNING TIME				TONNAGE PER SHIFT								
										246.5				12 TO 4								
														4 TO 12								

WRAMC FORM 367
15 SEP 1961

UNIT NO. <u>4157</u>		AIR CONDITIONING LOG																		DATE <u>7-2-61</u>			
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMPS.	PURGE				WATER MAKE UP (READING)		
	GPM				WATER TEMP.	GPM				COND. TEMP.		OIL					SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2400 _____	GAL. USED _____	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	IN		OUT	DISCHARGE	IN	OUT			BEARING TEMP.	LEVEL	TEMP.	PRESSURE								
2300	16	36	1	54.5	42	7.5	10.2	87	96	146	4	129	22	130									
2400	16	36	1	54.5	42	7.5	10.2	87	96	146	4	129	22	130									
0100	16	36	1	54.5	42	7.5	10.2	87	96	146	4	129	22	130									
0200	16	36	1	54.5	42	7.5	10.2	87	96	146	4	129	22	130									
0300	16	36	1	54.5	42	7.5	10.2	87	96	146	4	129	22	130									
0400	16	36	1	54.5	42	7.5	10.2	87	96	146	4	129	22	130									
0500	16	36	1	54.5	42	7.5	10.2	87	96	146	4	129	22	130									
0600	16	36	1	54.5	42	7.5	10.2	87	96	146	4	129	22	130									
REMARKS																						MECHANIC'S SIGNATURE	
0700	17	35	1	53.5	41	8	10.0	83	93	146	3	129	22	131									
0800	17	35	1	53.5	41	8	10.0	83	93	146	3	129	22	132									
0900	17	35	1	53.5	41	8	10.0	83	94	146	3	129	22	132									
1000	17	35	1	53.5	42	9	10.1	84	95	146	3	129	22	135									
1100	17	35	1	53.5	42	9	10.1	84	95	146	3	129	22	135									
1200	17	36	1	54	42	10	10.2	86	95	147	3	129	22	137									
1300	17	36	1	54	42	10	10.2	86	95	147	3	129	22	137									
1400	17	36	1	54	43	10	10.3	86	95	147	3	129	22	137									
REMARKS																						MECHANIC'S SIGNATURE	
1500	16	35.5	1	54.5	42	10.2	10.5	87	96	146	4	129	22	130									
1600	16	36	1	54.5	42	10.3	10.6	87	96	146	4	129	22	130									
1700	16	36	1	54.5	42	10.5	10.8	88	97	146	4	130	22	130									
1800	16	36	1	54	42	9	10.8	86	96.5	145	4	130	22	125									
1900	16	36	1	53.5	42	7.5	9.7	85	95	147	4	130	21.5	118									
2000	16	36	1	53	42	7.5	9.2	85	94.5	147	4	129	21.5	117									
2100	16	36	1	53.5	42	7.4	9.0	82	92.5	146	4	129	21	116									
2200	16	36	1	52	42	7	9.0	81.5	90	145	4	126	21	115									
REMARKS																						MECHANIC'S SIGNATURE	
RUNNING TIME																						TONNAGE PER SHIFT	
24 HRS																						12 TO 8 _____	
																						8 TO 4 _____	
																						4 TO 12 _____	

UNIT NO.		AIR CONDITIONING LOG																		DATE		
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		OIL				SUCTION PRESSURE	DISCHARGE		OIL LEVEL	REFR. LEVEL	2400 _____	GAL. USED _____		
				IN	OUT			IN	OUT	BEARING TEMP.		LEVEL	TEMP.								PRESSURE	
2300	1	37			41	7.5	97		93		122	2	138	20	120	2	34	1/2	Full			
2400		37			41	7.5	97		93		122	2	138	20	120	2	34	1/2	Full			
0100		37			41	7.5	97		93		122	2	138	20	120	2	34	1/2	Full			
0200		37			41	7.5	97		93		122	2	138	20	120	2	34	1/2	Full			
0300	17	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
0400	17	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
0500	17	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
0600	17	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
REMARKS																					MECHANIC'S SIGNATURE	
0700	17	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
0800	17	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
0900	17	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
1000	17	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
1100	17	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
1200	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
1300	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
1400	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
REMARKS																					MECHANIC'S SIGNATURE	
1500	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
1600	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
1700	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
1800	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
1900	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
2000	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
2100	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
2200	16	37	1	55	43	9.2	100.5		96		123	2	139	20	127	2	35	1/2	Full			
REMARKS																					MECHANIC'S SIGNATURE	
										RUNNING TIME								TONNAGE PER SHIFT				
										24 HRS		B May						11 TO 1 1 TO 4 4 TO 12				

UNIT NO.		AIR CONDITIONING LOG																		DATE		
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED	
				IN	OUT			IN	OUT													
2300	1	37	1	54	4	37	37	97	158	4	131	21	121	37	30	1/2	1/2	41	52	93	59	
2400	1	37	1	54	4	37	37	97	158	4	131	21	121	37	30	1/2	1/2	41	52	93	59	
0100	1	37	1	54	4	37	37	97	158	4	131	21	121	37	30	1/2	1/2	41	52	93	59	
0200	1	37	1	54	4	37	37	97	158	4	131	21	121	37	30	1/2	1/2	41	52	93	59	
0300	1	37	1	54	4	37	37	97	158	4	131	21	121	37	30	1/2	1/2	41	52	93	59	
0400	1	37	1	54	4	37	37	97	158	4	131	21	121	37	30	1/2	1/2	41	52	93	59	
0500	1	37	1	54	4	37	37	97	158	4	131	21	121	37	30	1/2	1/2	41	52	93	59	
0600	1	37	1	54	4	37	37	97	158	4	131	21	121	37	30	1/2	1/2	41	52	93	59	
REMARKS																						
0700	1	37	1	54	4	37	37	97	158	3	132	21	125	3	30	1/2	1/2	41	52	93	59	
0800	1	37	1	54	4	37	37	97	158	3	132	21	125	3	30	1/2	1/2	41	52	93	59	
0900	1	37	1	54	4	37	37	97	158	3	132	21	125	3	30	1/2	1/2	41	52	93	59	
1000	1	37	1	54	4	37	37	97	158	3	131	21	125	3	30	1/2	1/2	41	52	93	59	
1100	1	37	1	54	4	37	37	97	158	3	131	21	125	3	30	1/2	1/2	41	52	93	59	
1200	1	37	1	54	4	37	37	97	158	3	131	21	125	3	30	1/2	1/2	41	52	93	59	
1300	1	37	1	54	4	37	37	97	158	3	131	21	129	3	31	1/2	1/2	41	52	93	59	
1400	1	37	1	54	4	37	37	97	158	3	131	21	129	3	31	1/2	1/2	41	52	93	59	
REMARKS																						
1500	16	37	1	54	4	37	37	97	158	4	130	21	124	3	32	1/2	1/2	41	53	100	65	
1600	16	37	1	54	4	37	37	97	158	4	131	21	130	2	31	1/2	1/2	41	53	100	65	
1700	16	37	1	54	4	37	37	97	158	4	132	21	130	2	31	1/2	1/2	41	53	100	65	
1800	16	37	1	54	4	37	37	97	159	4	132	21	126	4	34	1/2	1/2	41	52	100	65	
1900	16	37	1	54	4	37	37	97	159	4	131	21	126	4	35	1/2	1/2	41	52	100	65	
2000	16	37	1	54	4	37	37	97	158	4	132	21	129	4	33	1/2	1/2	41	52	93	63	
2100	16	37	1	54	4	37	37	97	158	4	130	21	118	4	37	1/2	1/2	41	51	97	62	
2200	16	37	1	54	4	37	37	97	158	4	130	21	116	4	35	1/2	1/2	41	51	95	61	
REMARKS																						
TURNING TIME										MECHANIC'S SIGNATURE										TONNAGE PER SHIFT		
24 HRS										B. M. J.										18 TO 8 8 TO 12		

WRAMC FORM 367
15 SEP 1961

UNIT NO.		AIR CONDITIONING LOG																		DATE				
TIME	COOLER						CONDENSER						POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)	
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		OIL				SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL		2400	GAL. USED				
				IN	OUT			IN	OUT	BEARING TEMP.	LEVEL	TEMP.									PRESSURE			
2300	42			50	40.5	77	85			75.5	72	114	31	103										
2400	42			50	40.5	77	85			75.5	72	114	31	103										
0100	42			50	40.5	77	85			75.5	72	114	31	103										
0200	42			50	40.5	77	85			75.5	72	114	31	103										
0300	42			50	40.5	77	85			75.5	72	114	31	103										
0400	42			50	40.5	77	85			75.5	72	114	31	103										
0500	42			50	40.5	77	85			75.5	72	114	31	103										
0600	42			50	40.5	77	85			75.5	72	114	31	103										
REMARKS																					MECHANIC'S SIGNATURE			
0700	42			50	40.5	77	85			75.5	72	114	31	103										
0800	42			50	40.5	77	85			75.5	72	114	31	103										
0900	42			50	40.5	77	85			75.5	72	114	31	103										
1000	42			50	40.5	77	85			75.5	72	114	31	103										
1100	42			50	40.5	77	85			75.5	72	114	31	103										
1200	42			50	40.5	77	85			75.5	72	114	31	103										
1300	42			50	40.5	77	85			75.5	72	114	31	103										
1400	42			50	40.5	77	85			75.5	72	114	31	103										
REMARKS																					MECHANIC'S SIGNATURE			
1500	42			50	40.5	77	85			75.5	72	114	31	103										
1600	42			50	40.5	77	85			75.5	72	114	31	103										
1700	42			50	40.5	77	85			75.5	72	114	31	103										
1800	42			50	40.5	77	85			75.5	72	114	31	103										
1900	42			50	40.5	77	85			75.5	72	114	31	103										
2000	42			50	40.5	77	85			75.5	72	114	31	103										
2100	42			50	40.5	77	85			75.5	72	114	31	103										
2200	42			50	40.5	77	85			75.5	72	114	31	103										
REMARKS																					MECHANIC'S SIGNATURE			
RUNNING TIME																					TONNAGE PER SHIFT			
																					12 TO 3			
																					3 TO 6			
																					6 TO 12			

UNIT NO.		AIR CONDITIONING LOG															DATE						
7-9-94		COOLER					CONDENSER					COMPRESSOR					PURGE					WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP'S.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS			
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	16.5	30.0	1.0	51	4.0	7.0	7.1	84	91		14.4	4.0	12.0	21	10.6								
2400	16.5	30.0	1.0	51	4.0	7.0	7.1	84	91		14.4	4.0	12.0	21	10.6								
0100	16.5	30.0	1.0	51	4.0	7.0	7.1	84	91		14.3	4.0	12.0	21	10.5								
0200	16.5	30.0	1.0	51	4.0	7.0	7.1	84	90		14.3	4.0	12.0	21	10.5								
0300	16.5	30.0	1.0	50.5	4.1	6.5	6.5	84	90		14.4	4.0	12.0	21	10.4								
0400	16.5	30.0	1.0	50.5	4.1	6.3	6.3	84	90		14.4	4.0	12.0	21	10.3								
0500	16.5	30.0	1.0	50.5	4.1	6.2	6.2	84	90		14.3	4.0	12.0	21	10.2								
0600	16.5	30.0	1.0	50.5	4.1	6.0	6.0	84	90		14.3	4.0	12.0	21	10.0								
REMARKS																				MECHANIC'S SIGNATURE			
0700	16.5	30.0	1.0	51	4.0	7.0	7.1	84	92		14.4	4.0	12.0	22	10.4								
0800	16.5	30.0	1.0	51	4.0	7.0	7.1	84	92		14.4	4.0	12.0	22	10.4								
0900	16.5	30.0	1.0	51	4.0	7.0	7.1	84	93		14.4	4.0	12.0	22	10.3								
1000	16.5	30.0	1.0	51	4.0	7.0	7.1	84	93		14.4	4.0	12.0	22	10.2								
1100	16.5	30.0	1.0	51	4.0	6.5	6.5	84	93		14.4	4.0	12.0	22	10.1								
1200	16.5	30.0	1.0	51	4.0	6.5	6.5	84	93		14.4	4.0	12.0	22	10.1								
1300	16.5	30.0	1.0	51	4.0	6.5	6.5	84	94		14.4	4.0	12.0	22	10.0								
1400	16.5	30.0	1.0	51	4.0	6.5	6.5	84	94		14.4	4.0	12.0	22	11.9								
REMARKS																				MECHANIC'S SIGNATURE			
1500	16.5	30.0	1.0	51	4.0	7.2	7.2	84	95		14.4	4.0	12.0	22	11.9								
1600	16.5	30.0	1.0	51	4.0	7.5	7.5	84	95		14.5	4.0	12.0	22	11.9								
1700	16.5	30.0	1.0	51	4.0	7.5	7.5	84	95		14.5	4.0	12.0	22	11.9								
1800	16.5	30.0	1.0	51	4.0	7.5	7.5	84	91		14.4	4.0	12.0	21	11.2								
1900	16.5	30.0	1.0	50.5	4.1	6.8	6.8	84	90		14.4	4.0	12.0	21	11.0								
2000	16.5	30.0	1.0	50	4.1	6.5	6.5	84	90		14.4	4.0	12.0	21	10.7								
2100	16.5	30.0	1.0	50	4.2	6.2	6.2	84	88		14.3	4.0	12.0	21	9.5								
2200	16.5	30.0	1.0	50.5	4.2	6.0	6.0	84	86		14.3	4.0	12.0	21	9.2								
REMARKS																				MECHANIC'S SIGNATURE			
RUNNING TIME																				B			
TONNAGE PER SHIFT																				12 TO 4			

UNIT NO.		AIR CONDITIONING LOG																		DATE					
7-5A1E		COOLER						CONDENSER						COMPRESSOR						PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS					
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE											
2300	11	26.5	1	51.5	42	7.2	7.2	92	92	121	4	134	20.4	110	6	40	1/2	7.2							
2400	17	26.5	1	51.5	42	7.2	7.2	92	92	121	4	134	20.4	110	6	40	1/2	7.2							
0100	17	26.5	1	51.5	42	7.2	7.2	92	92	121	4	134	20.4	110	6	40	1/2	7.2							
0200	17	26.5	1	51.4	41	7.2	7.2	92	92	121	4	134	20.4	110	6	40	1/2	7.2							
0300	17	26.5	1	51.4	41	7.2	7.2	92	92	121	4	134	20.4	110	6	40	1/2	7.2							
0400	17	26.5	1	51.4	41	7.2	7.2	92	92	121	4	134	20.4	110	6	40	1/2	7.2							
0500	17	26.5	1	51.4	41	7.2	7.2	92	92	121	4	134	20.4	110	6	40	1/2	7.2							
0600	17	26.5	1	51.4	41	7.2	7.2	92	92	121	4	134	20.4	110	6	40	1/2	7.2							
REMARKS																				MECHANIC'S SIGNATURE					
0700	17	26.5	1	52	42	8	8	93	93	121	4	136	20	115	6	39	1/2	7.2							
0800	17	26.5	1	52	42	8	8	93	93	121	4	136	20	115	6	39	1/2	7.2							
0900	17	26.5	1	52	41	8	8	93	93	121	4	136	20	114	6	39	1/2	7.2							
1000	17	26.5	1	52	41	8	8	93	93	121	4	136	20	110	6	39	1/2	7.2							
1100	17	26.5	1	52	41	8.5	8.5	92	92	121	4	136	20	110	6	39	1/2	7.2							
1200	17	26.5	1	52	41	8.5	8.5	92	92	121	4	136	20	110	6	39	1/2	7.2							
1300	17	26.5	1	52	41	7	7	97	97	121	4	136	20	114	6	39	1/2	7.2							
1400	17	26.5	1	52	42	7	7	97	97	121	4	136	20	117	6	39	1/2	7.2							
REMARKS																				MECHANIC'S SIGNATURE					
1500	16	26.5	1	52	42	7	7	97	97	121	4	137	21	120	5	38	1/2	7.2							
1600	16	26.5	1	52	42	7	7	97	97	121	4	137	21	121	5	38	1/2	7.2							
1700	16	26.5	1	52	42	7	7	97	97	121	4	137	21	120	5	38	1/2	7.2							
1800	16	26.5	1	51.9	41	7	7	95	95	122	2	137	20.5	110	5	38	1/2	7.2							
1900	16	26.5	1	52.5	42	6.5	6.5	91	91	122	2	137	20.5	107	5	37	1/2	7.2							
2000	16	26.5	1	52	41	6.5	6.5	89.5	89.5	121	2	137	20	105	4	38	1/2	7.2							
2100	16	26.5	1	52.5	41	6	6	87	87	121	2	137	20	102	4	37	1/2	7.2							
2200	16	26.5	1	52.5	41	6.2	6.2	89.5	89.5	121	2	136	20	100	4	38	1/2	7.2							
REMARKS																				MECHANIC'S SIGNATURE					
										WORKING TIME		244.5		P. 44.5		TONNAGE PER SHIFT									
																12 TO 4									
																4 TO 12									

UNIT NO.		AIR CONDITIONING LOG																		DATE					
#6212		COOLER						CONDENSER						COMPRESSOR						PURGE				WATER MAKE UP (READING)	
TIME	GPM	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2400	GAL. USED			
					IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE										
2300	17	26	2	1	52.5		7.5	55		44		158	4	129	20	112	2	34	112	11	41.5				
2400	17	26	2	1	52.5		7.5	55		44		158	4	129	20	112	2	34	112	11	41.5				
0100	17	26	2	1	52.5		7.5	55		44		158	4	129	20	112	2	34	112	11	41.5				
0200	17	26	2	1	52.5		7.5	55		44		158	4	129	20	112	2	34	112	11	41.5				
0300	17	26	2	1	52.5		7.5	55		44		158	4	129	20	112	2	34	112	11	41.5				
0400	17	26	2	1	52.5		7.5	55		44		158	4	129	20	112	2	34	112	11	41.5				
0500	17	26	2	1	52.5		7.5	55		44		158	4	129	20	112	2	34	112	11	41.5				
0600	17	26	2	1	52.5		7.5	55		44		158	4	129	20	112	2	34	112	11	41.5				
REMARKS																						MECHANIC'S SIGNATURE			
0700	17	26	2	1	52.5		7.5	55		44		158	4	130	20	112	2	33	114	11	41.5				
0800	17	26	2	1	52.5		7.5	55		44		158	4	130	20	112	2	33	114	11	41.5				
0900	17	26	2	1	52.5		7.5	55		44		158	4	130	20	112	2	33	114	11	41.5				
1000	17	26	2	1	52.5		7.5	55		44		158	4	130	20	112	2	33	114	11	41.5				
1100	17	26	2	1	52.5		7.5	55		44		158	4	130	20	112	2	33	114	11	41.5				
1200	17	26	2	1	52.5		7.5	55		44		158	4	130	20	112	2	33	114	11	41.5				
1300	17	26	2	1	52.5		7.5	55		44		158	4	130	20	112	2	33	114	11	41.5				
1400	17	26	2	1	52.5		7.5	55		44		158	4	130	20	112	2	33	114	11	41.5				
REMARKS																						MECHANIC'S SIGNATURE			
1500	16	27	1	1	54.5		8.2	57		45		158	4	130	21	122	2	34	114	12	42	51.5			
1600	16	27	1	1	55		8.3	57.5		45.5		158	4	130	21	122	2	34	114	12	41.5	52			
1700	16	27	1	1	55		8.3	57.5		45.5		158	4	130	21	122	2	34	114	12	41.5	52			
1800	16	26	1	1	53		41.5	5	7	93		157	4	129	20	112	2	34	114	11	41	50			
1900	16	27	1	1	52.5		42	6.5	7.3	90		157	4	129	20	110	2	33	114	11	40.5	49.5			
2000	16	27	1	1	52		42.5	6	7.2	89		157	4	129	20	95	2	31	114	11	41	49.5			
2100	16	27.5	1	1	52		43	5.5	7.15	89		158	4	129	20	91	2	32	114	11	41	49.5			
2200	16	27	1	1	51.5		43	6	7.2	89		158	4	129	20	90	3	30	114	11	41.5	49.5			
REMARKS																						MECHANIC'S SIGNATURE			
2442																		B. 2142		TONNAGE PER SHIFT					
																				12 TO 4					
																				4 TO 12					

UNIT NO.		AIR CONDITIONING LOG														DATE					
# 2 York		COOLER					CONDENSER					COMPRESSOR				PURGE				WATER MAKE UP (READING)	
TIME	SUCTION GPM	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE GPM	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS	
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE							
2300	44		FULL	47	41.5	12.5		80	86		T.S.G.	7/8	114	82	40						DB 68° WB 60° RH 66% 55
2400	44		FULL	47	41.5	12.5		80	86		T.S.G.	7/8	114	82	40						
0100	44		FULL	47	41.5	12.5		80	86		T.S.G.	7/8	114	82	40						
0200	44		FULL	46.5	41	12.5		80	86		T.S.G.	7/8	114	82	40						
0300	44		FULL	46.5	41	12.5		80	86		T.S.G.	7/8	114	82	40						
0400	44		FULL	46.5	41	12.5		79.8	86		T.S.G.	7/8	114	82	40						
0500	44		FULL	46.5	41	12.5		79.8	86		T.S.G.	7/8	114	82	40						
0600	42		FULL	48	41	12.9		80	87		T.S.G.	7/8	114	81	150						
REMARKS																					
0700	41		RI	46	40	13.0		80	87		T.S.G.	7/8	113	81	100						
0800	41		RI	46.5	40	13.0		80	87		T.S.G.	7/8	113	81	100						
0900	41		RI	47	41	13.0		80	87		T.S.G.	7/8	113	81	100						
1000	43		RI	50	48.5	13.0		80	85		T.S.G.	7/8	114	81	100						DB 70 WB 66 RH 79 64
1100	43		RI	50	48.5	12.8		80	85		T.S.G.	7/8	114	81	100						
1200	43		RI	50	48.5	12.8		80	85		T.S.G.	7/8	114	81	100						
1300	43		RI	50	48.5	12.8		80	85		T.S.G.	7/8	114	81	100						
1400	43		RI	51.8	49.4	13.1		80	86		T.S.G.	7/8	115	81	110						
REMARKS																					
1500	42		FULL	52	40.6	13.0		81	90		T.S.G.	7/8	113	81	140						
1600	42	X	FULL	51.5	40.5	13.7	X	80.5	89	X	T.S.G.	7/8	113	81	137						
1700	42	X	FULL	52	41	13.2	X	81.5	89	X	T.S.G.	7/8	113	81	127						
1800	43		FULL	51.5	41	12.9		80	88.5		T.S.G.	7/8	113	80	122						
1900	43		FULL	51	41	12.5		79.5	87		T.S.G.	7/8	113	80	112						
2000	43		FULL	51	41	12.6		79	86.5		T.S.G.	7/8	114	80	107						
2100	43		FULL	51	41	12.4		78.5	86		T.S.G.	7/8	114	81	102						
2200	42		FULL	50.5	41	12.3		77.5	85		T.S.G.	7/8	115	81	112						
REMARKS																					
TUNING TIME															MECHANIC'S SIGNATURE		TONNAGE PER SHIFT				
2:15 PM															B. M. M.		12 TO 8 8 TO 4 4 TO 12				

UNIT NO.		AIR CONDITIONING LOG																		DATE			
#5 Carrier		COOLER						CONDENSER						COMPRESSOR						PURGE		WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS			
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	16.2	37°	3/4	50	45	5.8	92.3		8.8		136	3.5	128	19	95								
2400	16.2	37°	3/4	50	45	5.8	92.3		8.8		136	3.5	128	19	95								
0100	16.2	37°	3/4	50	45	5.8	92.3		8.8		136	3.5	128	19	95								
0200	16.1	37°	3/4	49.9	45	5.6	92.2		8.8		135	3.5	127	18	94								
0300	16.1	37°	3/4	49.9	45	5.6	92.2		8.8		135	3.5	127	18	94								
0400	16	37°	3/4	49.8	45	6	95.8		8.8		135	3.5	128	18	94								
0500	16	37°	1"	49.9	45	6	94		8.8		136	3.5	128	18	94								
0600	16	38	1"	51	45	7	96		9.2		136	3.5	128	20	119								
REMARKS																				MECHANIC'S SIGNATURE			
0700	12	36	1"	50	42	7.1	97		9.3		136	3	130	20	129								
0800	12	37	1"	50	42	7.1	97		9.3		136	3	130	20	129								
0900	16.5	37	1"	51	48.5	7.1	97		9.2		136	3	130	20	129								
1000	17	37	1"	51	48	6.5	95		9.0		136	3	130	20	129								
1100	17	37	1"	51	42	6.5	95		9.1		136	3	130	20	110								
1200	17	37	1"	51	42	6.5	95		9.1		136	3	130	20	110								
1300	16.5	38	1"	52	43	7.1	97		9.2		136	3	130	20	115								
1400	16	38	1"	53	44	6.5	95		8.9		137	3	130	20	97								
REMARKS																				MECHANIC'S SIGNATURE			
1500	16	37.5	1	53.4	43	7	96		9.5		133	3	130	20	125								
1600	16	37	1	53	43	6.9	95		9.2		137	3	129	20	126								
1700	16	37	1	53.5	43	7.1	96.5		9.5		133	3	130	20	125								
1800	16	36.5	3/4	52.5	42	6.9	96		9.05		136	3	129	20	114								
1900	16	36	3/4	52	42	6.5	95		9.2		136	3	129	20	121								
2000	16	37	3/4	52.5	42.6	6.6	93		9.0		136	3	129	19.5	100								
2100	16	37	1	52.6	42	6.2	92		9.2		136	3	129	19	99								
2200	16	36.5	1	51	42	5.8	91.5		8.9		136	3	129	19	101								
REMARKS																				MECHANIC'S SIGNATURE			
										WORKING TIME		4 hrs				TONNAGE PER SHIFT							

UNIT NO.		AIR CONDITIONING LOG																		DATE				
#6 Carrier																				8-9-94				
TIME	COOLER				CONDENSER				POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)					
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		OIL					SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFRIG. LEVEL	Temp Press					
				IN	OUT			IN		OUT	BEARING TEMP.	LEVEL	TEMP.						PRESSURE	S	R	S	R	
2300	16.5	37	1	51.5	43	6	92		92	157	4.5	132	20	111							42	49	82	60
2400	16.5	37	1	51.5	43	6	92		92	157	4.5	132	20	110						42	49	82	59	
0100	16.5	37	1	51.5	43	6	92		92	157	4.5	132	20	110						42	49	81	59	
0200	16.5	37	1	51.5	43	6	92.5		91.5	157	4.5	132	20	110						42	49	80	59	
0300	16.5	37	1	51.2	43	6	92.5		91.5	157	4.5	132	20	109						41.9	49	80	59	
0400	16.5	37	1	51	43	5.5	92		90	157	4.5	132	20	107						41.5	48.5	80	59	
0500	16.5	37	1	51	43	5.5	92.5		90	157	4.5	132	20	106						41.5	48.5	80	59	
0600	16.5	37	1	52.5	43	5	90		90	157	4.5	132	20	112						41.5	48	80	58	
REMARKS																				MECHANIC'S SIGNATURE				
0700	17	36.5	1	51	43	5	90		91	154	4.5	130	20	115						41	48	80	58	
0800	17	36	1	51.5	43	5	90		93	154	4.5	130	20	115						41	48	82	58	
0900	17	36	1	52	43	5	90		90	154	4.5	130	20	115						42	50	82	65	
1000	17	36	1	52	43	5	90		90	154	4.5	130	20	115						42	50	82	65	
1100	17	36	1	52.5	43	5	92		90	154	4.5	130	20	110						42	49	92	64	
1200	17	36	1	52.5	43	5	92		90	154	4.5	130	20	110						42	49	92	64	
1300	16.5	37	1	53.5	43	6	92		92	154	4.5	130	20	116						42.5	51	90	65	
1400	16.5	37	1	53	43	5	90		93	154	4.5	130	20	124						42	51	91	64	
REMARKS																				MECHANIC'S SIGNATURE				
1500	16	37	1	53.5	43.5	6	92		95	154	4.5	130	20	130						41	50.5	92	65	
1600	16	37	1	53	42	5.5	91.5		94.5	154	4.5	130	20	128						41	50	92	65	
1700	16	37	1	53	43	5	92		95	154	4.5	131	20	130						41	50.5	91	67	
1800	16	37	1	53	43	5	90		94	152	4.5	131	20	115						41.5	50.5	90	63	
1900	16	37	1	53	43	5.5	90		93.5	152	4.5	130	20	120						41.5	50	90	62	
2000	16	37	1	53.5	43.5	6	92		91	154	4.5	131	20	102						42	51	90	61	
2100	16	37	1	53.5	43.5	6.5	92		90.5	154	4.5	131	20	100						42	51	90	62	
2200	16	37	1	53	43.5	6.5	92		92	157	4.5	132	20	103						42	51	90	61	
REMARKS																				MECHANIC'S SIGNATURE				
		21145																		B. May				
		TONNAGE PER SHIFT																						
		18 TO 1																						
		8 TO 1																						
		6 TO 1																						

UNIT NO.
#4 Carrier

AIR CONDITIONING LOG

DATE
9-6-94

TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE					WATER MAKE UP (READING)	COMMENTS
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		OIL			SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL				
				IN	OUT			IN	OUT			LEVEL	TEMP.	PRESSURE									
2300	16	37	1	47	45	5	90	80	88		132	3/4	135	15#	70						DB WB RH DP		
2400	16	37	1	47	45	5	90	80	88		132	3/4	135	15#	70						63 50 77 35		
0100	16	37	1	47	45	5	90	80	88		131	3/4	135	15#	69								
0200	16	37	1	47	42.3	5	90	80	88		131	3/4	134	15#	70								
0300	16	37	1	47	42.2	5	90	80	88		132	3/4	134	15#	70								
0400	16	37	1	47	42	5.6	92	80	89		132	3/4	134	15#	69								
0500	16	37	1	47	42	6.6	92	80	89		132	3/4	134	15#	69								
0600	16	37	1	47.5	42	7	92.5	81	91.5		131	3/4	134	13#	71								
REMARKS																						MECHANIC'S SIGNATURE	
0700	16.1	37	1	46	40	6	92	82	88		131	1/2	132	15	70								
0800	16.5	37	1	46	40	6.1	92	82	88		131	1/2	132	15	70								
0900	16.1	37	1	47	42	6	92	82	88		132	1/2	132	16	70								
1000	16.1	37	1	48	42	5.5	92	81	88		132	1/2	132	16	70						DB WB RH DP		
1100	16.5	37	1	48	42	6	92	80	88		132	1/2	132	16	70						63 60 76 57		
1200	16.5	37	1	49	42	6.4	92	81	90		132	1/2	132	16	70								
1300	16.5	37	1	49	42	6.5	92	81	90		131	1/2	132	16	100								
1400	16.9	37	1	49	42	7	93	81	92		131	1/2	132	16	105								
REMARKS																						MECHANIC'S SIGNATURE	
1500	16.5	42	1	49	43	7	96	81	92		131	1/2	132	16	107								
1600	16.5	42	1	49	43	7	96	81	93		131	1/2	132	16	108						DB WB RH DP		
1700	16.5	42	1	49	43	7.3	97	81	93		131	1/2	132	16	108						75 61 42 33		
1800	16.7	42	1	49	43	7	96	81	92		131	1/2	132	16	107								
1900	16.4	41	1	48	43	7	95	81	92		131	1/2	132	16	103								
2000	17	41	1	48	42	6.5	94	81	91		131	1/2	132	16	101								
2100	17	40	1	47	42	6.5	94	81	91		131	1/2	132	16	96								
2200	16.9	39	1	46	41	5.5	91	80	89		131	1/2	132	16	95								
REMARKS																						MECHANIC'S SIGNATURE	
																						JTO	
																						TONNAGE PER SHIFT	
																						1 TO 4	
																						5 TO 8	
																						9 TO 12	

UNIT NO.		AIR CONDITIONING LOG															DATE						
#5 Carrier		COOLER					CONDENSER					COMPRESSOR					PURGE					WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS			
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	16"	38°	1/2	49	48.5	5.2	92		86		134	3"	126	17	72								
2400	16"	38°	1/2	49	48	5.3	92		85		134	3"	126	17	72								
0100	16"	38°	1/2	49	48	5.2	92		85		134	3"	126	17	72								
0200	16"	38°	1/2	48.5	48	5.5	92		86		133	3"	126	17	74								
0300	16"	38°	1/2	48.5	48	5.5	92		86		133	3"	126	17#	74								
0400	16"	38°	1/2	48	48.8	5.6	92		87		132	3"	126	17#	73								
0500	16"	38°	1/2	48	48.7	5.6	92		89		132	3"	126	17#	73								
0600	16"	39°	1/2	49	48	6.2	94		87		134	3"	126	18#	73								
REMARKS																				MECHANIC'S SIGNATURE			
0700	16.1	37	1/2	48	48.5	6.5	95		89		134	3"	128	17	96								
0800	16.1	37	1/2	48	48	6.2	93		89		134	3"	128	17	95								
0900	16	38	1/2	49	48	6.4	95		88		134	3"	128	17	85								
1000	16	38	1/2	50	48.5	6.5	95		89		134	3"	128	17	85								
1100	16	38	1/2	50	48	6	93		89		134	3"	128	17	90								
1200	16	38	1/2	51	48	6	93		88		134	3"	128	17	90								
1300	16	38	1/2	51	48	6.5	95		88		135	3"	128	18	100								
1400	16	38	1	51	48	6.1	94		89		135	3"	128	18	100								
REMARKS																				MECHANIC'S SIGNATURE			
1500	16	37	1	51	44	6	93		87		134	3	130	20	118								
1600	16	37	1	51	44	6.5	94		87		136	3	131	20	112								
1700	16.5	37	1	50	43	6.5	94		88		136	3	131	20	112								
1800	17	37	1	50	43	7	97		87		136	3	131	20	111								
1900	17	36	1	49	42	6.5	96		88		136	3	130	20	111								
2000	16.5	37	1	49	42	6	93		87		136	3	130	20	110								
2100	16.1	36.5	1	49	42	3.5	92		87		136	3	130	20	95								
2200	16.1	37	1	49	42	5.5	92		87		136	3	130	20	95								
REMARKS																				MECHANIC'S SIGNATURE			
										RUNNING TIME													
												VTO											
TONNAGE PER SHIFT																							
15 TO 8																							
8 TO 4																							
4 TO 12																							

WRAMC FORM 367
15 FEB 1961

UNIT # 5 CARLIER															AIR CONDITIONING LOG										DATE 10-14-94	
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMPS	PURGE				WATER MAKE UP (READING)					
	SUCTION	REFRID. TEMP.	REFRID. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL	2000 _____		GAL. USED _____				
				IN	OUT			IN	OUT											COMMENTS						
2300	15.4	35	1/2	49	40	5.5	93		87		131	13/4	129	17	85				41	42	83	55				
2400	17	35	1/2	49	40	5	92		85		131	13/4	129	17	85			41	42	83	55					
0100	17	36	1/2	49	42	5	93		85		131	13/4	129	17	85			41	42	83	55					
0200	17	36	1/2	49	42	5.5	93		85		131	13/4	129	17	85			41	42	83	55					
0300	17	36	1/2	49	42	5	92		85		131	13/4	129	17	85			41	42	83	55					
0400	17	36	1/2	49	42	5	92		85		132	13/4	129	17	80			41	42	83	55					
0500	17	37	1/2	49	42	5	92		85		132	13/4	129	17	80			41	42	83	55					
0600	17	37	1/2	49	42	5.5	93		87		132	13/4	129	17	82			41	42	83	55					
REMARKS															MECHANIC'S SIGNATURE <i>Whelan</i>											
0700	17	37	1/2	49	42	6	94		87		132	13/4	126	18	92			41	47	84	60					
0800	17	37	1/2	49	42	6	94		87		132	13/4	126	18	92			41	47	84	60					
0900	17	37	1/2	49	42	5.5	92		88		132	13/4	126	18	92			41	47	83	50					
1000	17	37	1/2	49	42	5.5	92		88		132	13/4	126	18	92			41	47	83	50					
1100	17	37	1/2	49	42	5.5	92		88		132	13/4	126	18	92			41	47	83	50					
1200	17	37	1/2	50	42	6	94		88		133	13/4	129	17	87			41	47	83	58					
1300	17	37	1/4	50	42	6.5	95		87		133	13/4	130	17	89			41	47	82	51					
1400	17	37	1/4	50	42	6.8	95		87		133	13/4	129	17	90			41	47	81	57					
REMARKS															MECHANIC'S SIGNATURE <i>WTO</i>											
1500	17	37	1/4	51	42	6.8	95		88		132	13/4	128	19	102			41	48	80	57					
1600	17	37	1/4	51	42	6.8	95		88		132	13/4	128	19	102			41	48	80	57					
1700	17	36	1/4	50.5	41.5	5.2	91		88		132	13/4	129	18	89			41	48	80	56					
1800	17	36	1/4	50.5	41.5	5.1	91		88		132	13/4	129	18	88			41	48	80	56					
1900	17	36	1/4	50	41.5	6.8	93		87		131	13/4	128	18	86			41	47	80	56					
2000	17	36	1/4	50	41.5	6.8	93		87		131	13/4	128	18	84			41	47	80	56					
2100	17	36	1/4	49.5	41.5	6.8	93		86		132	13/4	127	18	84			41	47	80	56					
2200	17	36	1/4	49.5	41.5	5.5	92		85		132	13/4	127	18	84			41	47	80	56					
REMARKS															MECHANIC'S SIGNATURE <i>R.K. Duff</i>											
TUNING TIME															TONNAGE PER SHIFT											

UNIT NO.		AIR CONDITIONING LOG															DATE						
72 YORK		COOLER					CONDENSER					COMPRESSOR					PURGE					WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP'S	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS			
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	47		2 11	46	41	121		73	86		1680	Full	115	80	84								
2400	47		2 11	43	42	118		74	84		1680	Full	115	80	84								
0100	47		2 11	43	42	118		74	84		1680	Full	115	80	84								
0200	47		2 11	47	45	124		73	85		1680	Full	115	80	85								
0300	47		2 11	47	45	118		73	84		1680	Full	115	80	85								
0400	47		2 11	47	45	115		72	83		1680	Full	115	80	85								
0500	47		2 11	47	45	118		72	81		1680	Full	115	80	85								
0600	47		2 11	47	45	118		72	83		1680	Full	115	80	85								
REMARKS: Close Hot Gas Pyl Pass 2230 hrs																					MECHANIC'S SIGNATURE: <i>W. L. L. L.</i>		
0700	48		Full	47	42	115		71	78		1680	Full	115	80	80								
0800	48		Full	47	42	115		71	79		1680	Full	115	80	81								
0900	48		Full	48	42	115		71	79		1680	Full	115	80	81								
1000	48		Full	48	42	114		72	80		1680	Full	115	80	81								
1100	48		Full	48	42	115		73	81		1680	Full	115	80	82								
1200	48		Full	48	42	117		74	82		1680	Full	115	80	82								
1300	48		Full	48	42	118		75	83		1680	Full	115	80	82								
1400	48		Full	48	42	119		74	82		1680	Full	115	80	83								
REMARKS:																					MECHANIC'S SIGNATURE:		
1500	48		Full	48	42	114		74	82		1680	Full	115	80	83								
1600	48		Full	48	42	114		74	82		1680	Full	115	80	83								
1700	48		Full	48	42	113		73	80		1680	Full	115	80	83								
1800	48		Full	48	42	113		73	80		1680	Full	115	80	83								
1900	48		Full	48	42	120		72	82		1680	Full	114	80	82								
2000	48		Full	48	42	120		72	82		1680	Full	114	80	82								
2100	48		Full	48	42	113		74	82		1680	Full	114	80	83								
2200																							
REMARKS:																					MECHANIC'S SIGNATURE: <i>W. L. L. L.</i>		
RUNNING TIME																					TONNAGE PER SHIFT		
																					12 TO 4		
																					4 TO 12		

UNIT NO. #2		AIR CONDITIONING LOG														DATE NOV 18-94			
TIME	COOLER				CONDENSER				POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP.	PURGE				WATER MAKE UP (READING)
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.	DISCHARGE	COND. TEMP.	WATER TEMP.	BEARING TEMP.		LEVEL	TEMP.	PRESSURE	SUCTION PRESSURE		DISCHARGE	OIL LEVEL	REFR. LEVEL		
2300																			
2400																			
0100																			
0200																			
0300																			
0400																			
0500																			
0600																			
REMARKS																		MECHANIC'S SIGNATURE	
0700																			
0800																			
0900																			
1000	45		Full	50	42	115		75	80		75	115	80	80					
1100	45		Full	50	42	115		75	80		75	115	80	80					
1200	45		Full	49	42	110		75	80		75	110	80	85					
1300	45		Full	49	42	110		75	80		75	110	80	85					
1400	45		Full	49	42	110		75	80		75	110	80	85					
REMARKS																		MECHANIC'S SIGNATURE	
1500	46		Full	49	42	109		72	78		75	111	84	83					
1600	46		Full	49	42	109		72	80		75	111	84	83					
1700	46		Full	49	42	108		71	80		75	111	84	83					
1800	46		Full	49	42	108		72	79		75	110	84	80					
1900	45		Full	48	42	108		73	78		75	110	84	79					
2000	45		Full	48	42	108		72	77		75	110	84	76					
2100	45		Full	48	42	108		72	75		75	110	84	75					
2200	45		Full	48	42	107		72	75		75	110	84	74					
REMARKS																		MECHANIC'S SIGNATURE	
RUNNING TIME																		N TO	
TONNAGE PER SHIFT																			

WRAMC FORM 367
15 SEP 1981

UNIT NO.		AIR CONDITIONING LOG																		DATE			
5 CARRIAGE		COOLER						CONDENSER						COMPRESSOR						PURGE		WATER MAKE UP (READING)	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP'S	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	2000	GAL. USED		
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE									
2300	16.5	37°	3/4	51.5	44	5.2	92		83		136	1.5	134	20#	84								
2400	16.5	37°	3/4	51.5	44	5.2	92		83		136	1.5	134	20#	80								
0100	16.3	37°	3/4	51.5	44	5.3	92		82		136	1.5	134	19.5#	93								
0200	16.3	37°	3/4	51.5	44	5.3	92		82		136	1.5	134	19.5#	92								
0300	16.2	38°	3/4	51.5	44	6#	93.9		83		137	1.5	135	19.8	93								
0400	16.2	38°	3/4	51.5	44	6#	93.9		83		137	1.5	135	19.8	93								
0500	16.2	38°	3/4	51.5	44	6#	93		84		137	1.5	134	20#	123								
0600	16.1	37°	3/4	51.5	43	6#	93		82		137	1.5	134	20#	122								
REMARKS										MECHANIC'S SIGNATURE										COMMENTS			
0700	16	38	3/4	51	42	5	90	=	81	=	138	2	140	20	120								
0800	16	38	3/4	51	42	5	90	=	81	=	138	2	140	20	120								
0900	16	38	3/4	51	42	5	91	=	80	=	138	2	140	20	120								
1000	16	38	3/4	51	42	5	91	=	80	=	138	2	140	20	120								
1100	16	38	3/4	51	42	5	91	=	80	=	138	2	140	20	120								
1200	16	38	3/4	51	42	5	91	=	80	=	138	2	140	20	120								
1300	16	38	3/4	51	42	5	91	=	80	=	138	2	140	20	120								
1400	16	38	3/4	51	42	5	91	=	80	=	138	2	140	20	120								
REMARKS										MECHANIC'S SIGNATURE										COMMENTS			
1500	16	38	3/4	53	43.5	5.5	91		84		138	1.5	134	20	117								
1600	16	38	3/4	53	43.5	6	92		84		138	1.5	134	20	118								
1700	16	38	3/4	53	43.5	6	92		84		138	1.5	134	20	118								
1800	16	38	3/4	53	43.5	5.5	91		84		138	1.5	134	20	118								
1900	16	38	3/4	53	43	5	91		83		138	1.5	134	20	81								
2000	16	38	3/4	53	43	5	91		83		138	1.5	134	20	81								
2100	16	38	3/4	53	43	5	91		83		138	1.5	134	20	81								
2200	16	38	3/4	53	43.5	5	91		83		138	1.5	134	20	81								
REMARKS										MECHANIC'S SIGNATURE										TONNAGE PER SHIFT			
										170										12 TO 1 8 TO 4 4 TO 12			

UNIT NO. 2 YORK															AIR CONDITIONING LOG										DATE 12-14-94	
TIME	COOLER					CONDENSER					POSITION CAP. INDICATOR	COMPRESSOR				MOTOR AMP'S.	PURGE				WATER MAKE UP (READING)					
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		OIL				SUCTION PRESSURE	DISCHARGE		OIL LEVEL	REFRIG. LEVEL	2400	GAL. USED						
				IN	OUT			IN	OUT	BEARING TEMP.		LEVEL	TEMP.								PRESSURE					
2300	43	---	Full	48	41	100	---	70	71	---	---	---	---	---	---	---	---	---	---	---	---	---				
2400	43	---	Full	48	41	100	---	70	71	---	---	---	---	---	---	---	---	---	---	---	---					
0100	43	---	Full	48	41	100	---	70	71	---	---	---	---	---	---	---	---	---	---	---	---					
0200	43	---	Full	48	41	100	---	70	71	---	---	---	---	---	---	---	---	---	---	---	---					
0300	43	---	Full	48	41	100	---	70	71	---	---	---	---	---	---	---	---	---	---	---	---					
0400	43	---	Full	48	41	100	---	70	71	---	---	---	---	---	---	---	---	---	---	---	---					
0500	43	---	Full	48	41	100	---	70	71	---	---	---	---	---	---	---	---	---	---	---	---					
0600	43	---	Full	48	41	100	---	70	71	---	---	---	---	---	---	---	---	---	---	---	---					
REMARKS																					MECHANIC'S SIGNATURE					
0700	43	---	Full	48	41	113	---	70	76	---	---	---	---	---	---	---	---	---	---	---	---					
0800	43	---	Full	48	41	114	---	72	78	---	---	---	---	---	---	---	---	---	---	---	---					
0900	43	---	Full	48	41	114	---	72	78	---	---	---	---	---	---	---	---	---	---	---	---					
1000	43	---	Full	49	41	116	---	73	80	---	---	---	---	---	---	---	---	---	---	---	---					
1100	43	---	Full	49	41	120	---	73	82	---	---	---	---	---	---	---	---	---	---	---	---					
1200	43	---	Full	49	41	123	---	74	83	---	---	---	---	---	---	---	---	---	---	---	---					
1300	43	---	Full	49	41	124	---	74	83	---	---	---	---	---	---	---	---	---	---	---	---					
1400	43	---	Full	49	41	124	---	74	83	---	---	---	---	---	---	---	---	---	---	---	---					
REMARKS																					MECHANIC'S SIGNATURE					
1500	43	---	Full	49	41	121	---	73	82	---	---	---	---	---	---	---	---	---	---	---	---					
1600	43	---	Full	49	41	122	---	74	82	---	---	---	---	---	---	---	---	---	---	---	---					
1700	43	---	Full	49	41	123	---	74	82	---	---	---	---	---	---	---	---	---	---	---	---					
1800	42	---	Full	50	41	123	---	73	81	---	---	---	---	---	---	---	---	---	---	---	---					
1900	43	---	Full	49	41	122	---	74	83	---	---	---	---	---	---	---	---	---	---	---	---					
2000	43	---	Full	49	41	119	---	73	80	---	---	---	---	---	---	---	---	---	---	---	---					
2100	42	---	Full	48	41	116	---	73	79	---	---	---	---	---	---	---	---	---	---	---	---					
2200	42	---	Full	47	41	114	---	71	78	---	---	---	---	---	---	---	---	---	---	---	---					
REMARKS																					MECHANIC'S SIGNATURE					
RUNNING TIME																					170					
TONNAGE PER SHIFT																					15 TO 1					
																					1 TO 15					
																					1 TO 12					

UNIT NO.		AIR CONDITIONING LOG																		DATE					
4 CARRIER		COOLER						CONDENSER						COMPRESSOR						PURGE				WATER MAKE UP (READING)	
TIME	SUCTION	REFRID. TEMP.	REFRID. LEVEL	WATER TEMP.		DISCHARGE	COND. TEMP.	WATER TEMP.		POSITION CAP. INDICATOR	OIL				MOTOR AMP.	SUCTION PRESSURE	DISCHARGE	OIL LEVEL	REFRID. LEVEL	2400 _____	GAL. USED _____				
				IN	OUT			IN	OUT		BEARING TEMP.	LEVEL	TEMP.	PRESSURE											
2300	17	36	1	49	43	5	40	80	90	---	104	3	138	16	110										
2400	17	36	1	49	43	5	40	80	90	---	104	3	137	16	110										
0100	17	36	1	49	43	5	40	80	90	---	104	3	137	16	110										
0200	17	36	1	49	43	5	40	80	90	---	104	3	137	16	110										
0300	17	36	1	49	43	5	40	80	90	---	104	3	137	16	110										
0400	17	36	1	49	43	5	40	80	90	---	104	3	137	16	110										
0500	17	36	1	49	43	5	40	80	90	---	104	3	137	16	110										
0600	17	36	1	49	43	5	40	80	90	---	104	3	137	16	110										
REMARKS																					MECHANIC'S SIGNATURE		J. J. J.		
0700	17	36	1	51	43.5	4	88	80	91		148	2.5	138	16	120										
0800	17	36	1	51	43.5	4	88	80	90		148	2.5	138	16	120										
0900	17	36	1	51	44	4	88	80	89		150	2.5	138	16	120										
1000	16.5	37	1	52	45	4	88	80	89		148	2.5	138	16	125										
1100	16.5	37	1	52	45	4.5	89	80	90		149	2.5	138	16	125										
1200	16.5	37	1	52	45	5	90	80	92		149	2.5	138	16	125										
1300	16.5	37	1	52	45	5	88	80	90		149	2.5	138	16	125										
1400	16	38	1	50	45	5.5	91	80	92		150	2.5	138	16.5	130										
REMARKS																					MECHANIC'S SIGNATURE		R. Mancio		
1500	16	38	1	53	45	4	88	79	87		150	2.5	138	17	126										
1600	16	38	1	53	45	4.5	89	79	87		150	2.5	138	17	127										
1700	16.1	38	1	53	44.5	4.5	89	79	87		150	2.5	138	17	127										
1800	16.1	38	1	53	44.5	5	90	79	87		150	2.5	138	17	127										
1900	16	38	1	53	44.5	5	90	79	88		156	2.5	138	17	126										
2000	16	38	1	52	44	5.5	91	79	88		150	2.5	138	17	93										
2100	16	38	1	52	44	6	92	79	89		150	2.5	138	16	89										
2200	16	38	1	51	44	6	92	79	89		150	2.5	138	16	88										
REMARKS																					MECHANIC'S SIGNATURE		JTO		
																				Tonnage per shift		15 TO 4 5 TO 4 6 TO 12			

Grade Unit Bldg. 49

Time	10:30 AM	10:50 AM	8:25	5:01 AM	2:09 PM	6:27 PM	6:28 PM
Date	6-25-94	6-25-94	6-26-94	6-27-94	6-27-94	5:44 PM	1:33 PM
Evaporator Pressure	75	15	15	15	15	15	16"
Condenser Pressure	7	4.5	5	5	6.5	5	6 H
Oil - Pressure	15	14	14	15	14	14	13.8 H
Condenser Water In	85	79	80	80	83	83	81
Condenser Water Out	92	83	85	81	87	87	84
Chill Water out	44	42	43	41	43	43	43
Chill Water IN	51	44	47	44	49	48	47
Outside Temp.							13
Refrigerant Level							74
Sump oil Temp.	163	160	159	111	165	165	164
Bearing Oil Temp.	137	135	135		135	134	137
Water Treatment							
Remarks	R. km UTO UTO 4:41 PM 2:41 PM						

This is the Fall

Trace Unit Bldg. 49

Time	12:53 PM	9:05 PM	5:10 AM	11:42 PM	5:30 PM	12:45	5:20 AM	11:15 AM
Date	7-7-94	7-7-94	7-8-94	7-8-94	7-9-94	7-9-94	7-10-94	7-10-94
Evaporator Pressure	16	16	116"	16	16"	15	15.5"	15
Condenser Pressure	8	8.6	7.5"	9	7.1"	9	6.4"	6.5
Oil - Pressure	14	14.5	14.5"	14	14"	14	14"	15.4
Condenser Water In	86	85	84°	88	84°	88	81.5°	82
Condenser Water Out	92	93	91°	94	89°	94	86°	87
Chill Water out	44	43.5	44°	45	44°	44	44°	43
Chill Water IN	50	50.5	50°	52	51°	51	50°	48
Outside Temp.			76 86°	75 85				
Refrigerant Level	Full	Full	Full	Full	Full	Full	Full	Full
Sump oil Temp.	165	166	166°	170	169°	170	165°	167
Bearing Oil Temp.	138	137	163°	138	137°	137	134°	135
Water Treatment								
Remarks	Pri 12:53 PM 9:05 PM 5:10 AM 11:42 PM 5:30 PM 12:45 5:20 AM 11:15 AM							

U80

Trans Unit Bldg. 49

Time	9:10pm	4:38pm	1:53pm	1:50pm	11:17pm	2:34p	05:00	1:00pm
Date	7-10-94	7-11-94	7-11-94	7-11-94	7-12-94	7-12-94	7-13-94	7-13-94
Evaporator Pressure	15	16"	15	16"	16	16	16"	16
Condenser Pressure	6	5#	6	5#	6	6	6"	7
Oil - Pressure	14	14#	14	14"	13.5	14	18"	18
Condenser Water In	81	81°	80	81°	80	80	81°	83
Condenser Water Out	86	84°	85	84°	84	85	85°	86
Chill Water out	43.5	43°	43	43°	43	43	44°	43
Chill Water IN	49.5	47.5°	48	47.5°	49	49	47°	49
Outside Temp.								
Refrigerant Level	Full	Full	Full	Full	Full	Full	Full	Full
Sump oil Temp.	166	162°	165	161	170	170	138°	139
Bearing Oil Temp.	136	134°	135	133°	134	135	131°	124
Water Treatment								

Remarks

R.L.M L.R.

Ph

Ph

Ph

Ph

Ph

Ph

This is the Fall

ATTACHMENT B

Central Heating Plant Fuel Oil Logs

Corrected Copy

MAIN SECTION HTG PLANT

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

OCTOBER 1992

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9120 - 247 - 4365

9140 - 247 - 4359

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

a. Opening Inventory

788,558

b. Total Receipts

Ø

c. Total Issues

Ø

d. Closing book balance (lines a+b-c)

788,558

e. Closing Inventory

788,558

f. Actual Monthly loss (lines d-e)

Ø

g. Maximum allowable loss (lines a+b x .035)

Ø

h. Excessive Loss (lines f-g)

Ø

NATURAL GAS USAGE IN THERMS = 315,411.0

CENTRA HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

11-9-92

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

NOVEMBER 1992

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4363

9140 - 247 - 4357

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

a. Opening Inventory

788,558

b. Total Receipts

Ø

c. Total Issues

Ø

d. Closing book balance (lines a+b-c)

788558

e. Closing Inventory

788558

f. Actual Monthly loss (lines d-e)

Ø

g. Maximum allowable loss (lines a+bx.005)

Ø

h. Excessive Loss (lines f-g)

Ø

KS

NATURAL GAS USAGE IN THERMS = 436,591.1

CENTRAL HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

12-2-92

Dennis Bender BLD, DLT, LEADER BLDG #15

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

DECEMBER 1992

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4365	9140 - 247 - 4359	9140 - 247 - 4351
	#2 FUEL OIL	#5 FUEL OIL	#6 FUEL OIL
a. Opening Inventory	788,558		
b. Total Receipts	Ø		
c. Total Issues	Ø		
d. Closing book balance (lines a+b-c)	788,558		
e. Closing Inventory	788,558		
f. Actual Monthly loss (lines d-e)	Ø		
g. Maximum allowable loss (lines a+b x .005)	Ø		
h. Excessive Loss (lines f-g)	Ø		

NATURAL GAS USAGE IN THERMS = 558,003.1

CENTRAL HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

Dennis Bender AIR PT Leader BLDG #15

1-6-93

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

JANUARY 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4353

9140 - 247 - 4359

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

a. Opening Inventory

788,558

b. Total Receipts

0

c. Total Issues

0

d. Closing book balance (lines a+b-c)

788,558

e. Closing Inventory

788,558

f. Actual Monthly loss (lines d-e)

0

g. Maximum allowable loss (lines a+b x .005)

0

h. Excessive Loss (lines f-g)

0

REMARKS

NATURAL GAS USAGE IN THERMS = 576.607.7CENTRAL HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

2-3-93

Dennis Pender Bldg #15

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

FEBRUARY 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4365	9140 - 247 - 4359	9140 - 247 - 4351
	#2 FUEL OIL	#5 FUEL OIL	#6 FUEL OIL
a. Opening Inventory	788,558		
b. Total Receipts	28,004		
c. Total Issues	54,227		
d. Closing book balance (lines a+b-c)	762,335		
e. Closing Inventory	762,335		
f. Actual Monthly loss (lines d-e)	Ø		
g. Maximum allowable loss (lines a+b x .005)	Ø		
h. Excessive Loss (lines f-g)	Ø		

PKS

NATURAL Gas USAGE IN THERMS = 578,825.7

CENTRAL HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

3-3-93

Dimas Pender Bee PET Leader Bldg #15

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

MARCH 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4365	9140 - 247 - 4359	9140 - 247 - 4351
	#2 FUEL OIL	#5 FUEL OIL	#6 FUEL OIL
a. Opening Inventory	762,335		
b. Total Receipts	Ø		
c. Total Issues	50914		
d. Closing book balance (lines a+b-c)	711,421		
e. Closing Inventory	711,421		
f. Actual Monthly loss (lines d-e)	Ø		
g. Maximum allowable loss (lines a+b x .005)	Ø		
h. Excessive Loss (lines f-g)	Ø		

NATURAL GAS USAGE IN THERMS = 574,816.1

CENTRAL HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

Dennis Pender BSC RET Pender Bldg #15

4-2-93

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER
WASHINGTON, D.C. 20012

FOR PERIOD OF

APRIL 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4363 #2 FUEL OIL	9140 - 247 - 4359 #5 FUEL OIL	9140 - 247 - 4351 #6 FUEL OIL
a. Opening Inventory	711,421		
b. Total Receipts	Ø		
c. Total Issues	Ø		
d. Closing book balance (lines a+b-c)	711,421		
e. Closing Inventory	711,421		
f. Actual Monthly loss (lines d-e)	Ø		
g. Maximum allowable loss (lines a+b x .005)	Ø		
h. Excessive Loss (lines f-g)	Ø		

NATURAL GAS USAGE IN THERMS = 398,648.6

CENTRAL HEATING PLANT BLDG #15

5-4-93

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

Dennis J. Ford Det 1st Ford Bldg #15

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER
WASHINGTON, D.C. 20012

FOR PERIOD OF

MAY 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4365

9140 - 247 - 4359

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

a. Opening Inventory

711,421

b. Total Receipts

Ø

c. Total Issues

Ø

d. Closing book balance (lines a+b-c)

711,421

e. Closing Inventory

711,421

f. Actual Monthly loss (lines d-e)

Ø

g. Maximum allowable loss (lines a+b-x.005)

Ø

h. Excessive Loss (lines f-g)

Ø

NATURAL GAS USAGE IN THERMS = 254,131.2

CENTRAL HEATING PLANT BLDG #15

6-2-93

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

Dennis Pender Bldg #15

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

JUNE 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4265 #2 FUEL OIL	9140 - 247 - 4259 #5 FUEL OIL	9140 - 247 - 4251 #6 FUEL OIL
a. Opening Inventory	711,421		
b. Total Receipts	0		
c. Total Issues	0		
d. Closing book balance (lines a+b-c)	711,421		
e. Closing Inventory	711,421		
f. Actual Monthly loss (lines d-e)	0		
g. Maximum allowable loss (lines a+bx.005)	0		
h. Excessive Loss (lines f-g)	0		

NATURAL GAS USAGE IN THERMS = 197,049.6

CENTRAL HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

7-13-93

Dennis J. Gorder BTR PET Gorder Bldg #15

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

JULY 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4355	9140 - 247 - 4359	9140 - 247 - 4351
	#2 FUEL OIL	#5 FUEL OIL	#5 FUEL OIL
a. Opening Inventory	711,421		
b. Total Receipts	0		
c. Total Issues	0		
d. Closing book balance (lines a+b-c)	711,421		
e. Closing Inventory	711,421		
f. Actual Monthly loss (lines d-e)	0		
g. Maximum allowable loss (lines a+b x .005)	0		
h. Excessive Loss (lines f-g)	0		

NATURAL GAS USAGE IN THERMS = 179,446.1

CENTRAL HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

8-3-93

Dennis Bender RCE, RLT, Bender Bldg #15

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

AUGUST 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4365

9140 - 247 - 4359

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

a. Opening Inventory

711,421

b. Total Receipts

0

c. Total Issues

0

d. Closing book balance (lines a+b-c)

711,421

e. Closing Inventory

711,421

f. Actual Monthly loss (lines d-e)

0

g. Maximum allowable loss (lines a+b x .005)

0

h. Excessive Loss (lines f-g)

0

RKS

NATURAL GAS USAGE IN THERMS = 184,884.9

CENTRAL HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

9-14-93

Dennis Rendon BLC PLT Leader BLDG #15

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

SEPTEMBER 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4365	9140 - 247 - 4359	9140 - 247 - 4351
	#2 FUEL OIL	#5 FUEL OIL	#6 FUEL OIL
a. Opening Inventory	711,421		
b. Total Receipts	90994		
c. Total Issues	2449		
d. Closing book balance (lines a+b-c)	799,966		
e. Closing Inventory	799,966		
f. Actual Monthly loss (lines d-e)	Ø		
g. Maximum allowable loss (lines a+bx.005)	Ø		
h. Excessive Loss (lines f-g)	Ø		

NATURAL GAS USAGE IN THERMS = 195,611.1

CENTRAL HEATING PLANT BLDG #15

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

10-6-93

Dennis Pender

BLDG #15

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

OCTOBER 93

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4365

9140 - 247 - 4359

9140 - 247 - 4351

#2 FUEL OIL

#5 FUEL OIL

#6 FUEL OIL

a. Opening Inventory

799,966

b. Total Receipts

10-29-93 Bldg 54-TANK 8-2,869

TRANSFER FROM Bldg 15-Tank 10-23-93 5,901

c. Total Issues

234,56

d. Closing book balance (lines a+b-c)

781,711

e. Closing Inventory

781,711

f. Actual Monthly loss (lines d-e)

g. Maximum allowable loss (lines a+bx.005)

h. Excessive Loss (lines f-g)

REMARKS

NAT. GAS USAGE IN THERMS = 336,600

Bldg 15 Heating Plant

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

11-2-93

Joseph A. Williams

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

NOVEMBER 93

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4365 #2 FUEL OIL	9140 - 247 - 4359 #5 FUEL OIL	9140 - 247 - 4351 #6 FUEL OIL
a. Opening Inventory	781711		
b. Total Receipts	0		
c. Total Issues	3285		
d. Closing book balance (lines a+b-c)	778 426		
e. Closing Inventory	778 426		
f. Actual Monthly loss (lines d-e)			
g. Maximum allowable loss (lines a+b*.005)			
h. Excessive Loss (lines f-g)			

RKS

NAT. GAS USAGE IN Therms = 597,600

Bldg 15 Heating Plant

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

12-2-93

Joseph J. Hill

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

DECEMBER 1993

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4365	9140 - 247 - 4357	9140 - 247 - 4351
	#2 FUEL OIL	#5 FUEL OIL	#5 FUEL OIL
a. Opening Inventory	773,426		
b. Total Receipts TRANSFER FROM BLDG.#2	13,788		
c. Total Issues	176,275		
d. Closing book balance (lines a+b-c)	615,939		
e. Closing Inventory	615,939		
f. Actual Monthly loss (lines d-e)			
g. Maximum allowable loss (lines a+b x .005)			
h. Excessive Loss (lines f-g)			

NAT. GAS USAGE IN THERMS

315,873

BLDG.15-HEATING PLANT

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

JAN.04,94

Joseph A. Miller

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

MAIN PLANT BLDG 15

JANUARY 94

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4363	9140 - 247 - 4357	9140 - 247 - 4351
	#2 FUEL OIL	#5 FUEL OIL	#6 FUEL OIL
a. Opening Inventory	615,939		
b. Total Receipts ^{99^L} 185 TRANSFER FROM BLDG. 54	103,987		
c. Total Issues	484,065		
d. Closing book balance (lines a+b-c)	226,859		
e. Closing Inventory	226,859		
f. Actual Monthly loss (lines d-e) WATER	9,002		
g. Maximum allowable loss (lines a+b-x.005)			
h. Excessive Loss (lines f-g)			

REMARKS

NAT. GAS USEGAE IN THERM 123,810

BLDG. 15 HEATING PLANT

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

Feb. 8, 94

Joseph L. K. L. L.

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

FEBRUARY 54

BOOK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 247 - 4365 #2 FUEL OIL	9140 - 247 - 4359 #5 FUEL OIL	9140 - 247 - 4351 #5 FUEL OIL
a. Opening Inventory	226,359		
b. Total Receipts	298,127		
c. Total Issues	293,066		
d. Closing book balance (lines a+b-c)	231,920		
e. Closing Inventory	231,920		
f. Actual Monthly loss (lines d-e)			
g. Maximum allowable loss (lines a+b x .005)			
h. Excessive Loss (lines f-g)			

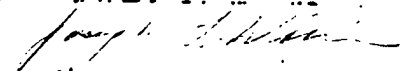
REMARKS

NAT. GAS USED IN THERM

290

BLDG. 15, HEATING PLANT

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER



10, 54

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

MARCH, 1994 ^{HA}

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4363

9140 - 247 - 4359

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

Opening Inventory

212,919

Total Receipts

464,246

Total Issues

58,605

Closing book balance (lines a+b-c)

618,560

Closing Inventory

Actual Monthly loss (lines d-e)

Maximum allowable loss (lines a+b x .005)

Excessive Loss (lines f-g)

KS NAT GAS USAGE IN THERM 434921

Bldg 15 Heating PLANT

RECEIVED APR 13 1994

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

APRIL 94

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4365

9140 - 247 - 4359

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

a. Opening Inventory

618,560

b. Total Receipts

Ø

c. Total Issues

2,290

d. Closing book balance (lines a+b-c)

616,270

e. Closing Inventory

616,270

f. Actual Monthly loss (lines d-e)

g. Maximum allowable loss (lines a+b x .005)

h. Excessive Loss (lines f-g)

KS

Nat. GAS usage in Therms
326,984
Bldg IS Heating plant.

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

May 4, 94

Joseph L. Kellie

MAY, 94

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	1140 - 227 - 4355	1140 - 227 - 4357	1140 - 227 - 4351
	12 FUEL OIL	13 FUEL OIL	14 FUEL OIL
a. Opening Inventory	616,270		
b. Total Receipts From bldg 2	10,000		
c. Total Issues	2,213		
d. Closing book balance (lines a+b-c)	624,057		
e. Closing Inventory	624,057		
f. Actual Monthly loss (lines d-e)			
g. Maximum allowable loss (lines a+b x .005)			
h. Excessive Loss (lines f-g)			

NAT. GAS usage in Therms 153,174

Bldg 15 Heating Plant

JUNE 21, 94

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

Joseph J. White

JUNE 94

NUMBER AND NOMENCLATURE OF PRODUCTS	1140 - 247 - 4303 #2 FUEL OIL	1140 - 247 - 4357 #5 FUEL OIL	1140 - 247 - 4351 #6 FUEL OIL
Opening Inventory	624,057		
Total Receipts	0		
Total Issues	245		
Closing book balance (lines a+b-c)	623,812		
Closing Inventory	623,812		
Actual Monthly loss (lines d-e)			
Maximum allowable loss (lines a+b x .005)			
Excessive Loss (lines f-g)			

Nat. Gas usage in terms 180158
Bldg 15, Heating Plant

7-6-94 SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER
Joseph A. Walsh

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

July 94

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4365

9140 - 247 - 4359

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

Opening Inventory

623,812

Total Receipts

0

Total Issues

12,366

Closing book balance (lines a+b-c)

611,446

Closing Inventory

611,446

Actual Monthly loss (lines d-e)

Maximum allowable loss (lines a+b x .005)

Excessive Loss (lines f-g)

K.S.

NAT. GAS. USED IN THERMS. 16984 Bldg. 15, Heating Plant

Aug 30 94

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

Aug. 94

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4363

9140 - 247 - 4359

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

Opening Inventory

611446

Total Receipts

0

Total Issues

0

Closing book balance (lines a+b-c)

611446

Closing Inventory

611446

Actual Monthly loss (lines d-e)

Maximum allowable loss (lines a+b x .005)

Excessive Loss (lines f-g)

REMARKS: NAT GAS USED IN THERMS 17140 Bldg 15 Heating PLANT

Aug. 30, 94

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY

WALTER REED ARMY MEDICAL CENTER

WASHINGTON, D.C. 20012

FOR PERIOD OF

Sept - 94

STOCK NUMBER AND NOMENCLATURE OF PRODUCTS

9140 - 247 - 4363

9140 - 247 - 4357

9140 - 247 - 4351

#2 FUEL OIL

#3 FUEL OIL

#6 FUEL OIL

Opening Inventory

611 446

Total Receipts

47,782

Total Issues

0

Closing book balance (lines a+b-c)

659 228

Closing Inventory

659 228

Actual Monthly loss (lines d-e)

Maximum allowable loss (lines a+b x .005)

Excessive Loss (lines f-g)

KMS

NAT. GAS. USED IN THERM 2039.6 Bldg 15 Heating Plant

Oct. 12, 94

SIGNATURE NAME AND CRCE OF INVENTORY OFFICER

ATTACHMENT C
Washington Gas Billings



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER 0054-978507

WALTER REED ARMY MED CTR
C/O ATTN HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

WASH TO COMBUSTION AREA - Washington Area Fuel
CHECK FOR CORRECT DATE AND AMOUNT

Fuel Fund
Donation \$

Gas Bill
Payment \$

Total
Payment \$ 109,670.82

ALL ARE DUE WHEN RENDERED

AMOUNT DUE NOW \$ 299,311.46

AMOUNT DUE
AFTER DATE BELOW \$ 302,304.57

OVERDUE
AFTER DEC 3, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE		
0054-978503	SEPT 29, 93 - OCT 28, 93	29	NOV 8, 93	NOV 30, 93		
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	SCF OF GAS USED	TERMS PER CCF	TOTAL THERMS
READ BY COMPANY	5365000	5071000		294,000	1.022	300,468.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL
CURRENT GAS USAGE - 300,468.0 THERMS @ \$.365

\$189,640.64
109,670.82

BUDGET PLAN INFORMATION				AMOUNT DUE NOW	
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE		\$	
\$	\$	\$	AMOUNT DUE AFTER	DEC 3, 93	\$ 302,304.57



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000

PURCHASE REQUEST AND COMMITMENT For use of this form, see AR 37-108, the proponent agency is USAFAC.		PURCHASE INSTRUMENT NO.		REQUISITION NO.	DATE	PAGE	OF
TO Purchasing and Contracting Officer		THRU:		FROM:	23 Aug. 1993		PAGES
PURCHASED FOR Dir. DEH		DELIVERED TO Bldg. 15		W74KMR 3235-0602		NOT LATER THAN (Date)	
It is requested that the supplies and services enumerated below or on attached list be:				NAME AND TELEPHONE NO. OF PERSON TO CALL FOR ADDITIONAL INFORMATION			
The supplies and services listed below cannot be secured through normal supply channels or other Army supply sources in the immediate vicinity, and their procurement will not violate existing regulations pertaining to local purchases for stock, therefore, local procurement is necessary for the following reason: (Check appropriate box and complete item.)				Fund Certification			
LOCAL PURCHASES AUTHORIZED AS THE NORMAL MEANS OF SUPPLY FOR THE FOREGOING BY				The supplies and services listed on this request are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed.			
EMERGENCY SITUATION PRECLUDES USE OF REQUISITION CHANNELS FOR SECURING ITEM				ACCOUNTING CLASSIFICATION			
ITEM	DESCRIPTION OF SUPPLY OR SERVICES	QUANTITY	UNIT	ESTIMATED	DATE	TYPED NAME AND TITLE OF CERTIFYING OFFICER	SIGNATURE
	REQUEST NATURAL GAS SERVICE TO BLDG. 15 FOR PERIOD 1 Sept. thru 31 Oct. 93 GAS SERVICE TO BE ON AN INTERRUPTABLE BASIS 335,000 THERMS REQUIRED. RECOMMEND NEGOTIATED PRICE PER THERM NOT TO EXCEED.			ESTIMATE \$122,275.00	23 AUG 93	MARGARET CORSILO Certifying Officer, DEH	Margaret Corsillo
	VENDOR: WASHINGTON GAS LIGHT CO. 365						
THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE				DISCOUNT			
				PURCHASE ORDER NUMBER			
				DELIVERY SCHEDULE			
Approved by commanding officer or his designee							
DATE	TYPED NAME AND GRADE OF INITIATING OFFICER	SIGNATURE	DATE	TYPED NAME AND GRADE OF COMMANDING OFFICER OR DESIGNATE	SIGNATURE		
8-23-93	REGINA LARRABEE	[Signature]	8-23-93	DEAN HENRY J. HENLEY, P.E. Director Directorate, Engineering and Housing	[Signature]		
DATE	TYPED NAME AND GRADE OF SUPPLY OFFICER	SIGNATURE					
	TELECHAND DEH	[Signature]					



Washington Gas

District of Columbia Division

Telephone: (202) 750-1000

Base Gas - Account Number

ACCOUNT # 0054-978507

WALTER REED ARMY MED CTR
C/O ATTN HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

Base Fund
Station

Gas Bill
Payment

Gas
ment

AMOUNT DUE NOW: \$ 204,004.48

AMOUNT DUE AFTER DATE BELOW: \$ 206,044.52

OVERDUE AFTER: JAN 5, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE		
0054-978503	OCT 28, 93 - NOV 30, 93	32	DEC 10, 93	DEC 30, 93		
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	DOF OF GAS USED	TERMS PER CCF	TOTAL THERMS
READ BY COMPANY	5902000	5365000		537,000	1.021	548,277.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL
CURRENT GAS USAGE - 548,277.0 THERMS @ \$.365

\$ 3,883.37
200,121.11

BUDGET PLAN INFORMATION

AS USED PER PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW
\$	\$	\$	\$ 204,004.48
			AMOUNT DUE AFTER JAN 5, 94
			\$ 206,044.52



Washington Gas
District of Columbia Division

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAIVER CONTRIBUTION \$ _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (202) 750-1000

PURCHASE REQUEST AND COMMITMENT For use of this form, see AR 37-1; the proponent agency is OASA(FM)		1. PURCHASE INSTRUMENT NO		2. REQUISITION NO		3. DATE 5 NOV 1993		PAGE 1 OF 1	
4. TO: PURCHASING AND CONTRACTING OFFICER		5. THRU:		6. FROM: W74KMR-3308-0601					
7. PURCHASED FOR DIRECTOR, DPW		8. DELIVERED TO BUILDING 15		9. NOT LATER THAN (Date)		11. TELEPHONE NUMBER			
12. LOCAL PURCHASES AUTHORIZED AS THE NORMAL MEANS OF SUPPLY FOR THE FOREGOING BY		13. REQUISITIONING DISCLOSES NONAVAILABILITY OF ITEMS AND LOCAL PURCHASE IS AUTHORIZED BY		10. NAME OF PERSON TO CALL FOR ADDITIONAL INFORMATION		FUND CERTIFICATION The supplies and services listed on this request are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed			
EMERGENCY SITUATION PRECLUDES USE OF REQUISITION CHANNELS FOR SECURING ITEM									
14. ITEM	15. DESCRIPTION OF SUPPLY OR SERVICES	16. QUANTITY	17. UNIT	18. ESTIMATED	19. ACCOUNTING CLASSIFICATION AND AMOUNT				
	REQUEST NATURAL GAS SERVICE TO BLG 15 FOR PERIOD 1 NOV THRU 31 DEC 1993 GAS SERVICE TO BE ON AN INTERRUPTABLE BASIS 1,172,000 THERMS REQUIRED. RECOMMEND NEGOTIATED PRICE PER THERM NOT TO EXCEED.				20. TYPED NAME AND TITLE OF CERTIFYING OFFICER MARGARET CORSILLO Certifying Officer, DEH				
	VENDOR: WASHINGTON GAS LIGHT CO. .365			ESTIMATE \$427,780.00	21. SIGNATURE 22. DATE				
25. THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE					23. DISCOUNT TERMS				
					24. PURCHASE ORDER NUMBER				
					26. DELIVERY REQUIREMENTS ARE MORE THAN 7 DAYS REQUIRED TO INSPECT AND ACCEPT THE REQUESTED GOODS OR SERVICES YES <input type="checkbox"/> NO <input type="checkbox"/> IF YES, NUMBER OF DAYS REQUIRED				
27. TYPED NAME AND GRADE OF INITIATING OFFICER REGINA LARRABEE-GS-12	28. SIGNATURE <i>Regina Larrabee</i>	29. DATE 11-5-93	34. TYPED NAME AND GRADE OF APPROVING OFFICER OR DESIGNEE HENRY J. HENLEY, P.E. DIRECTOR DIRECTORATE, PUBLIC WORKS		35. SIGNATURE <i>Henry J. Henley</i>		36. DATE 11/4/93		
30. TELEPHONE NUMBER 6-2491	31. TYPED NAME AND GRADE OF SUPPLY OFFICER		32. SIGNATURE						



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER 0054-978507

WALTER REED ARMY MED CTR
C/O ATTN HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$ 315,418.66

AMOUNTS DUE WHEN RENDERED

AMOUNT DUE NOW	\$	361,461.97
AMOUNT DUE AFTER DATE BELOW	\$	365,076.59
OVERDUE AFTER		FEB 4, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD		DAYS USED	DATE MAILED	NEXT METER READING DATE	
0054-978503	NOV 30, 93 - DEC 30, 93		30	JAN 13, 94 : FEB 1, 94		
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	63240001	59020001		422,000	1.022	431,284.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL
CURRENT GAS USAGE - 431,284.0 THERMS @ \$.365

\$ 204,043.31
157,418.66

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	\$	361,461.97
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE			
\$	\$	\$	AMOUNT DUE AFTER	\$	365,076.59



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE _____
AMOUNT OF CHECK \$ _____
TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Washington Area Gas
Total Amount
\$ 57,041.40

ACCOUNT NUMBER 0054.978507 *02

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

AMOUNT DUE NOW \$ 420,563.41
AMOUNT DUE AFTER DATE BELOW \$ 425,799.56
OVERDUE AFTER MAR 3, 94 &

00549785070000000000000000

PLEASE DETACH THIS SLIP AND RETURN WITH PAYMENT. MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE
0054.978507	DEC 30, 93 FEB 1, 94	33	FEB 10, 94	MAR 7, 94

PRESENT READING METHOD	PRESENT READING	PREVIOUS READING	METERED GAS LIGHT	FEET OF GAS USED	TERMS	TOTAL THERMS
READ BY COMPANY	6480000	6324000		156,000	1.030	160,680.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL	\$361,461.97
LATE PAYMENT CHARGE ASSESSED	2,060.04
CURRENT GAS USAGE - 160,680.0 THERMS @ \$.3550	57,041.40

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (703)750-1000
WE ARE EASIEST TO REACH TUESDAY THROUGH THURSDAY AFTER 10 AM.

BUDGET PLAN INFORMATION				AMOUNT DUE NOW
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS PAID TO DATE		\$ 420,563.41
\$	\$	\$	AMOUNT DUE AFTER MAR 3, 94	\$ 425,799.56



Washington Gas
District of Columbia Division

FOR YOUR RECORDS
CHECK NO. _____ DATE _____
AMOUNT OF CHECK \$ _____
THIRTY TWO DOLLARS AND NO CENTS \$ _____

ACCOUNT NUMBER 0054.978507 *02

PLEASE RETURN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER 0054.978507

6825 16TH ST NW #BLRM
WASH DC 20012
WALTER REED ARMY MED CTR
C/O ATT HSHL- E BLDG OFF

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you wish to contribute to the Fuel Fund, check box.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

FEES ARE DUE WHEN RENDERED

AMOUNT DUE NOW	\$87309.01
AMOUNT DUE AFTER DATE BELOW	\$
OVERDUE AFTER	APR 4, 1994

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE				
0054.978507	FEB 1,94 MAR 3,94	30						
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	X	THERMS PER CCF	=	TOTAL THERMS
READ BY CO	6713000	6480000		233,000		1.019		237,427.0
CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM								
CURRENT GAS USAGE-237,427.0 THERMS AT \$.3550 \$84,286.59								
CASH-OPY 1,574.19								

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE		\$ 87309.01
\$	\$	\$	AMOUNT DUE AFTER	\$



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Business - District of Columbia

ACCOUNT NUMBER

0054.978507 *02

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

AMOUNT DUE NOW	\$	504,034.78
AMOUNT DUE AFTER DATE BELOW	\$	508,126.72
OVERDUE AFTER	APR 4, 94	8

00549785070000000000000000

PLEASE DETACH THIS PORTION AND RETURN TO WASHINGTON GAS. MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD		DAYS USED	DATE MAILED	NEXT METER READING DATE	
0054.978507	FEB 1, 94	MAR 3, 94	30	MAR 14, 94	APR 5, 94	
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	6713000	6480000		233,000	1.019	237,427.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL	\$418,464.54
LATE PAYMENT CHARGE ASSESSED	2,144.60
CURRENT GAS USAGE - 237,427.0 THERMS @ \$.3550	84,286.59
OVERPAYMENT FEB 17, 94	860.95CR

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (703) 750-1000
WE ARE EASIEST TO REACH TUESDAY THROUGH THURSDAY AFTER 10 AM.

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	\$	504,034.78
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE			
\$	\$	\$	AMOUNT DUE AFTER APR 4, 94	\$	508,126.72



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

ACCOUNT NUMBER 0054.978507 *02

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER: 0054-978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously checked an amount, do not check box.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	\$ 216,153.00
AMOUNT DUE AFTER DATE BELOW	\$ 218,314.53
OVERDUE AFTER	MAY 5, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

GREENWICH TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE	
0054-978507	MAR 3, 94 - APR 1, 94	29	APR 14, 94	MAY 2, 94	
CURRENT READING METHOD	CURRENT READING - PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	7277000	6713000	564,000	1.022	576,408.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

CURRENT GAS USAGE - 576,408.0 THERMS @ \$.375 \$216,153.00

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	\$	216,153.00
\$	\$	\$	AMOUNT DUE AFTER MAY 5, 94	\$ 218,314.53



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

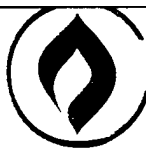
AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000

PURCHASE REQUEST AND COMMITMENT For use of this form, see AR 37-1; the proponent agency is OASA(FM)		1 PURCHASE INSTRUMENT NO		2 REQUISITION NO		3 DATE 10 MAR. 1994		PAGE OF	
4 TO: Purchasing and Contracting Officer		5 THRU:		6 FROM: W74KMR 4069-0603					
It is requested that the supplies and services enumerated below or on attached list be									
7 PURCHASED FOR Director, DPW		8 DELIVERED TO Bldg. 15		9 NOT LATER THAN (Date)		11 TELEPHONE NUMBER			
12 LOCAL PURCHASES AUTHORIZED AS THE NORMAL MEANS OF SUPPLY FOR THE FOREGOING BY		13 REQUISITIONING DISCLOSES NONAVAILABILITY OF ITEMS AND LOCAL PURCHASE IS AUTHORIZED BY		10 NAME OF PERSON TO CALL FOR ADDITIONAL INFORMATION					
14 ITEM		15 DESCRIPTION OF SUPPLY OR SERVICES		16 QUANTITY		17 UNIT		18 ESTIMATED UNIT PRICE TOTAL COST	
		REQUEST NATURAL GAS SERVICE TO BLDG. 15 FOR PERIOD 1 MAR. 1994 THRU 30 APR. 1994 GAS SERVICE TO BE ON AN INTERRUPTABLE BASIS 929,000 THERMS REQUIRED. RECOMMEND NEGOTIATED PRICE PER THERM NOT TO EXCEED.							
		VENDOR: WASHINGTON GAS LIGHT CO. .3750				ESTIMATE \$348,375.00			
25 THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE									
27 TYPED NAME AND GRADE OF INITIATING OFFICER REGINA LARRABEE GS 12		28 SIGNATURE <i>Regina Larrabee</i>		29 DATE 3-10-94		34 TYPED NAME AND GRADE OF APPROVING OFFICER OR DESIGNEE HENRY J. HENLEY, P.E. DIRECTOR DIRECTOR OF PUBLIC WORKS		35 SIGNATURE <i>H. J. Henley</i>	
30 TELEPHONE NUMBER ENERGY ENGINEER, DPW		32 SIGNATURE		33 DATE		36 DATE 3/10/94			
31 TYPED NAME AND GRADE OF SUPPLY OFFICER									
19 ACCOUNTING CLASSIFICATION AND AMOUNT									
20 TYPED NAME AND TITLE OF CERTIFYING OFFICER MARGARET CORSILLO Certifying Officer, DPW									
21 SIGNATURE <i>Margaret Corsillo</i>									
22 DATE 10 Mar 94									
23 DISCOUNT TERMS									
24 PURCHASE ORDER NUMBER									
26 DELIVERY REQUIREMENTS ARE MORE THAN 7 DAYS REQUIRED TO INSPECT AND ACCEPT THE REQUESTED GOODS OR SERVICES YES <input type="checkbox"/> NO <input type="checkbox"/> IF YES: NUMBER OF DAYS REQUIRED									
FUND CERTIFICATION The supplies and services listed on this request are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed									



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER: 0054-978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$ 158,437.13

BILLS ARE DUE WHEN RENDERED.

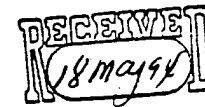
AMOUNT DUE NOW	\$ 374,590.13
AMOUNT DUE AFTER DATE BELOW	\$ 378,336.03
OVERDUE AFTER	JUNE 6, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE		
0054-978507	APR 1, 92 - MAY 2, 94	31	MAY 13, 94	JUNE 1, 94		
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	7690000	7277000		413,000	1.023	422,499.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL \$216,153.00
CURRENT GAS USAGE - 422,499.0 THERMS @ \$.375 158,437.13



BUDGET PLAN INFORMATION			AMOUNT DUE NOW
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	\$ 374,590.13
\$	\$	\$	AMOUNT DUE AFTER JUNE 6, 94 \$ 378,336.03



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____
AMOUNT OF CHECK \$ _____
TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000

Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER 0054-978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously pledged an amount, do not check box.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	\$ 122,746.27
AMOUNT DUE AFTER DATE BELOW	\$ 123,973.73
OVERDUE AFTER	JULY 6, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE					
0054-978507	MAY 2, 94 - JUNE 1, 94	30	JUNE 13, 94	JUNE 30, 94					
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	=	FEET OF GAS USED	X	THERMS PER 1000	=	TOTAL THERMS
READ BY COMPANY	8017000	7690000			327,000		1.025		335,175.0
CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #9LRM									

CURRENT GAS USAGE - 335,175.0 THERMS @ \$.365 \$122,338.88
INCREASE IN DC GROSS RECEIPTS TAX - .333% 407.39

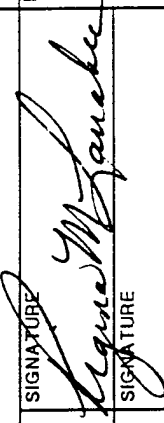
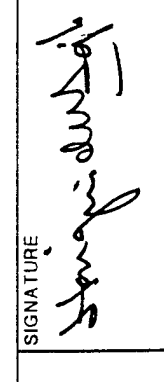
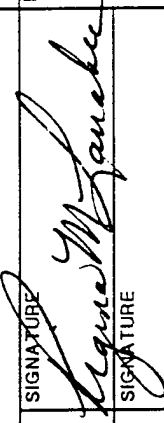
BUDGET PLAN INFORMATION			AMOUNT DUE NOW	
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	\$	122,746.27
\$	\$	\$	AMOUNT DUE AFTER JULY 6, 94	\$ 123,973.73



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____
AMOUNT OF CHECK \$ _____
TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

PURCHASE REQUEST AND COMMITMENT				PURCHASE INSTRUMENT NO.	REQUISITION NO.	DATE	PAGE 1 OF 1
For use of this form, see AR 37-108; the proponent agency is USAFAC.						12 May 1994	1 PAGES
TO: Purchasing and Contracting Officer		THRU: Program and Budget Branch ERMD		FROM: ENG SERV W74KMR 4132 0600			
It is requested that the supplies and services enumerated below or on attached list be:				NOT LATER THAN (Date)			
PURCHASED FOR Director, DPW		DELIVERED TO Bldgs 15					
The supplies and services listed below cannot be secured through normal supply channels or other Army supply sources in the immediate vicinity, and their procurement will not violate existing regulations pertaining to local purchases for stock, therefore, local procurement is necessary for the following reason: (Check appropriate box and complete item.)				NAME AND TELEPHONE NO. OF PERSON TO CALL FOR ADDITIONAL INFORMATION Regina M. Larrabee 202-576-0315			
LOCAL PURCHASE AUTHORIZED AS THE NORMAL MEANS OF SUPPLY FOR THE FOREGOING BY		REQUISITIONING DISCLOSES NONAVAILABILITY OF ITEMS AND LOCAL PURCHASE IS AUTHORIZED BY		Fund Certification			
				The supplies and services listed on this request are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed.			
EMERGENCY SITUATION PRECLUDES USE OF REQUISITION CHANNELS FOR SECURING ITEM				ACCOUNTING CLASSIFICATION			
ITEM	DESCRIPTION OF SUPPLY OR SERVICES	QUANTITY	UNIT	ESTIMATED		AMOUNT	
				Unit Price	Total Cost		
	Request natural gas service to Building 15 for the period of 1 May to 31 July 1994. Gas service to be on an interruptible basis. 572,000 therms required. Recommend negotiated price not to exceed						
	Vendor: Washington Gas			\$0.365/therm	\$208,780.00		
				DISCOUNT			
				PURCHASE ORDER NUMBER			
				DELIVERY SCHEDULE			
THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE				Approved by commanding officer or his designee			
DATE 12 May 94	TYPED NAME AND GRADE OF INITIATING OFFICER Regina M. Larrabee, GS-12	SIGNATURE 	DATE 15/12	TYPED NAME AND GRADE OF COMMANDING OFFICER OR DESIGNEE Henry J. Henley, P.E. Director Directorate, Public Works	SIGNATURE 		
DATE 12 May 94	TYPED NAME AND GRADE OF SUPPLY OFFICER	SIGNATURE 					

PREVIOUS EDITIONS OF THIS FORM WILL BE USED UNTIL EXHAUSTED.

DA FORM 3953
1 AUG 76



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER:

0054.978507 *02

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously pledged an amount, do not check box.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$ 78674.30

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	\$	201,420.57
AMOUNT DUE AFTER DATE BELOW	\$	203,434.77
OVERDUE AFTER		AUG 2, 94

00549785070000000000000000

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD		DAYS USED	DATE MAILED	NEXT METER READING DATE
0054.978507	JUN 1, 94	JUN 30, 94	29	JUL 12, 94	AUG 2, 94
CURRENT READING METHOD	CURRENT READING	-	PREVIOUS READING	+	UNMETERED GAS LIGHT = CCF OF GAS USED X THERMS PER CCF = TOTAL THERMS
READ BY COMPANY	8227000		8017000		210,000 1.023 214,830.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL \$122,746.27
CURRENT GAS USAGE - 214,830.0 THERMS @ \$.3650 78,412.95
INCREASE IN DC GROSS RECEIPTS TAX 261.35

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (703)750-1000
WE ARE EASIEST TO REACH TUESDAY THROUGH THURSDAY AFTER 10 AM.

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	\$	201,420.57
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE			
\$	\$	\$	AMOUNT DUE AFTER AUG 2, 94	\$	203,434.77



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____
AMOUNT OF CHECK \$ _____
TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

ACCOUNT NUMBER 0054.978507 *02

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER: **0054.978507 *02**

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously pledged an amount, do not check box.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	\$	6,723.74
AMOUNT DUE AFTER DATE BELOW	\$	6,790.98
OVERDUE AFTER	AUG 30, 94	&

0054978507067909806723748

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD		DAYS USED	DATE MAILED	NEXT METER READING DATE	
0054.978507	JUN 30, 94	JUL 30, 94	30	AUG 9, 94	AUG 31, 94	
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	8245000	8227000		18,000	1.020	18,360.0

CHARGES FOR GAS SERVICE AT: **6825 16TH ST NW #BLRM**

CURRENT GAS USAGE - 18,360.0 THERMS @ \$.3650 \$6,701.40
INCREASE IN DC GROSS RECEIPTS TAX 22.34

A PAYMENT OF \$78,674.30 WAS RECEIVED ON 07/25/94.
A PAYMENT OF \$122,746.27 WAS RECEIVED ON 08/04/94.

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (703)750-1000
WE ARE EASIEST TO REACH TUESDAY THROUGH THURSDAY AFTER 10 AM.

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	\$	6,723.74
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE			
\$	\$	\$	AMOUNT DUE AFTER AUG 30, 94	\$	6,790.98



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____
AMOUNT OF CHECK \$ _____
TAX DEDUCTIBLE (AFF CONTRIBUTION) \$ _____

ACCOUNT NUMBER 0054.978507 *02

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS •

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER 0054-978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

Fuel Fund
Donation

\$

Gas Bill
Payment

\$

Total
Payment

\$

AMOUNT DUE NOW

\$

177,357.32

AMOUNT DUE
AFTER DATE BELOW

\$

179,130.89

OVERDUE
AFTER

OCT 3, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT. MAKE CHECK PAYABLE TO WASHINGTON GAS

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE		
0054-978507	JULY 30, 94 - AUG 29, 94	30	SEPT 13, 94	SEPT 28, 94		
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS USED	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	8683000	8245000		438,000	1.021	447,198.0
CHARGES FOR GAS SERVICE AT		6825 16TH ST NW #BLRM				

BALANCE FROM PREVIOUS BILL

LATE PAYMENT CHARGE

CURRENT GAS USAGE - 447,198.0 THERMS @ \$.38

SYSTEM CHARGE

INCREASE IN DC GROSS RECEIPTS TAX - .333%

6,723.74
67.24
169,935.24
65.00
566.10

BUDGET PLAN INFORMATION

GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW	AMOUNT DUE AFTER
			\$ 177,357.32	
			OCT 3, 94	\$ 179,130.89



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000

PURCHASE REQUEST AND COMMITMENT

For use of this form, see AR 37-108; the proponent agency is USAFAC.

PURCHASE INSTRUMENT NO.

REQUISITION NO.

DATE

PAGE

TO: Purchasing and Contracting Officer

THRU: Program and Budget Branch
ERMD

FROM: ENG SERV W74KMR 4215 0600

1 PA.

It is requested that the supplies and services enumerated below or on attached list be:

DELIVERED TO Bldg 15

NOT LATER THAN (Date)

The supplies and services listed below cannot be secured through normal supply channels or other Army supply sources in the immediate vicinity, and their procurement will not violate existing regulations pertaining to local purchases for stock, therefore, local procurement is necessary for the following reason: (Check appropriate box and complete item.)

LOCAL PURCHASE AUTHORIZED AS THE NORMAL MEANS OF SUPPLY FOR THE FOREGOING BY

REQUISITIONING DISCLOSES NONAVAILABILITY OF ITEMS AND LOCAL PURCHASE IS AUTHORIZED BY

EMERGENCY SITUATION PRECLUDES USE OF REQUISITION CHANNELS FOR SECURING ITEM

ITEM	DESCRIPTION OF SUPPLY OR SERVICES	QUANTITY	UNIT	ESTIMATED	
				Unit Price	Total Cost
	Request natural gas service to Building 15 for the period of 1 August to 31 October 1994. Gas service to be on an interruptible basis. 731,000 therms required. Recommend negotiated price not to exceed				
	Vendor: Washington Gas			\$0.38/therm	\$277,780.00

ACCOUNTING CLASSIFICATION
Funds will be cited on individual MODs.

Fund Certification

The supplies and services listed on this request are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed.

NAME AND TELEPHONE NO. OF PERSON TO CALL FOR ADDITIONAL INFORMATION
Regina M. Larrabee
202-576-0315

DATE
4 Aug 94

TYPED NAME AND TITLE OF CERTIFYING OFFICER
Sheila A. O'Sullivan
Certifying Officer, DPW

SIGNATURE
Sheila A. O'Sullivan

DISCOUNT

PURCHASE ORDER NUMBER

DELIVERY SCHEDULE

THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE

Approved by commanding officer or his designee

DATE 8/3/94	TYPED NAME AND GRADE OF INITIATING OFFICER Regina M. Larrabee, GS-12	SIGNATURE <i>Regina M. Larrabee</i>	DATE 8/5	TYPED NAME AND GRADE OF COMMANDING OFFICER OR DESIGNEE Henry J. Henley, P.E. Director Directorate, Public Works	SIGNATURE <i>Henry J. Henley</i>
DATE	TYPED NAME AND GRADE OF SUPPLY OFFICER	SIGNATURE			

DA FORM 3953
1 AUG 76

PREVIOUS EDITIONS OF THIS FORM WILL BE USED UNTIL EXHAUSTED.



Washington Gas

District of Columbia Division

Telephone: (703) 750-1000

Base Line Account Number

ACCOUNT NUMBER 0054-978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

WRAMC DPW P&E DI

002

Final Fund
Donation

\$

Gas Bill
Payment

\$

Total
Payment

\$ 102,054.47

AMOUNT DUE NOW

\$ 272,689.06

AMOUNT DUE
AFTER DATE BELOW

\$ 275,415.95

OVERDUE
AFTER

NOV 1, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT. MAKE CHECK PAYABLE TO WASHINGTON GAS

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT - MAKE CHECKS PAYABLE TO THE CITY OF BIRMINGHAM											
ACCOUNT NUMBER		BILLING PERIOD		DAYS USED	DATE MAILED	NEXT METER READING DATE					
0054-978507		AUG 29, 94 - SEPT 28, 94		29	OCT 11, 94	OCT 27, 94					
CURRENT READING METHOD	CURRENT READING	-	PREVIOUS READING	+	UNMETERED GAS LIGHT	-	CCF OF GAS USED	x	THERMS PER CCF	=	TOTAL THERMS
READ BY COMPANY	8945000		8683000				262,000		1.021		267,502.0
CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM											

BALANCE FROM PREVIOUS BILL
CURRENT GAS USAGE 267,502.0 THERMS @ \$.38
CUSTOMER CHARGE
INCREASE IN DC GROSS RECEIPTS TAX - .333%

\$170,634.59
101,650.76
65.00
338.71

BUDGET PLAN INFORMATION			AMOUNT DUE NOW
GAS USED THIS PERIOD	CYAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	\$ 272,689.06
\$	\$	\$	AMOUNT DUE AFTER NOV 1, 94 \$ 275,415.95



Washington Gas
District of Columbia Division

CHECK NO

DATE

AMOUNT OF CHECK \$

TAX DEDUCTIBLE WAFF CONTRIBUTION \$

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000

FOR YOUR RECORDS



Washington Gas

District of Columbia Division

P.O. Box 2432
Washington, D.C. 20081-0001

- Telephone: (703) 750-1000
- Please Give Account Number

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously pledged an amount, do not check box.

<input type="checkbox"/>	Fuel Fund Donation	\$
<input type="checkbox"/>	Gas Bill Payment	\$
<input type="checkbox"/>	Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

ACCOUNT NUMBER: 0054-978507

WALTER REED ARMY MED CTR
ATTN: HSHL-E/BUDGET OFFICE
6825 16TH ST NW
WASH DC 20012

AMOUNT DUE NOW	AMOUNT DUE AFTER DATE BELOW
\$ 125,871.13	\$ 127,129.84
CLEARED AFTER	DEC 3, 92

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD		DAYS USED	DATE MAILED	NEXT METER READING DATE
0054-978507	SEPT 29, 92 - OCT 28, 92		30	NOV 6, 92	DEC 1, 92

CURRENT READING METHOD	CURRENT READING	-	PREVIOUS READING	-	UNMETERED GAS LIGHT	=	CCF OF GAS USED	x	THERMS PER CCF	-	TOTAL THERMS
READ BY COMPANY	0526000 5944000		0256000 5851000		METER CHANGE		363,000		1.021		370,623.0

CHARGES FOR GAS SERVICE AT:

6825 16TH ST NW #BLRM

CURRENT GAS USAGE - 370,623.0 THERMS @ \$.3287
INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

\$ 121,823.78
4,047.35

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE		\$ 125,871.13
\$	\$	\$	AMOUNT DUE AFTER DEC 3, 92	\$ 127,129.84



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____
AMOUNT OF CHECK \$ _____
TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

Washington Gas

District of Columbia Division

have previously pledged an amount, do not check box.

RESERVED 1992

- Amount Due Now
- Amount Due After

BILLS ARE DUE WHEN RENDERED.

ACCOUNT NUMBER 0054-978507

WALTER REED ARMY MED CTR
ATTN: HSHL-E/BLDG OFFICE
6825 16TH ST NW
WASH DC 20012

AMOUNT DUE NOW	AMOUNT DUE AFTER
\$ 199,488.27	\$ 201,483.15
OVERDUE	JAN 6, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD		DATE PAID	DATE MAILED	NEXT METER READING DATE	
0054-978503	OCT 28, 92	DEC 1, 92	33	DEC 11, 92	DEC 31, 92	
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	METERED GAS LIGHT	AMOUNT OF GAS USED	TERMS SEE COP	TOTAL THERMS
READ BY COMPANY	1103000	0526000		577,000	1.018	587,386.0
CHARGES FOR GAS SERVICE AT:			6825 16TH ST NW #BLRM			

CURRENT GAS USAGE - 587,386.0 THERMS @ \$.3287
INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

\$193,073.78
6,414.49

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	
AMOUNT USED FOR SERVICE	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	\$	199,488.27
\$	\$	\$	AMOUNT DUE AFTER JAN 6, 93	\$ 201,483.15



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE _____
AMOUNT OF CHECK \$ _____
TAX DEDUCTIBLE WAFR CONTRIBUTION \$ _____



Washington Gas

District of Columbia Division

P.O. Box 2432
Washington, D.C. 20081-0001
• Telephone: (703) 750-1000
• Please Give Account Number

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously pledged an amount, do not check box.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

JAN 21 1993

BILLS ARE DUE WHEN RENDERED.

ACCOUNT NUMBER: 0054-978507

WALTER REED ARMY MED CTR
ATTN: HSHL-E/BLDG OFFICE
6825 16TH ST NW
WASH DC 20012

AMOUNT DUE NOW	AMOUNT DUE AFTER DATE BELOW
\$ 219,583.27	\$ 221,779.10
OVERDUE AFTER	FEB 5, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE
0054-978503	DEC 1, 92 - DEC 31, 92	30	JAN 12, 93	FEB 2, 93

CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	1740000	1103000		637,000	1.015	646,555.

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

CURRENT GAS USAGE - 646,555.0 THERMS @ \$.3287
INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

\$212,522.63
\$217,060.64

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	\$	
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE			219,583.27
\$	\$	\$	AMOUNT DUE AFTER FEB 5, 93	\$	221,779.10



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____
AMOUNT OF CHECK \$ _____
TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____



Washington Gas

District of Columbia Division

P.O. Box 2432
Washington, D.C. 20031-0001

- Telephone: (703) 750-1000
- Please Give Account Number

ACCOUNT NUMBER: 0054-978507

WALTER REED ARMY MED CTR
ATTN: HSHL-E/BLDG OFFICE
6825 16TH ST NW
WASH DC 20012

FEB 27 1993

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

AMOUNT DUE NOW

AMOUNT DUE NOW	AMOUNT DUE AFTER DATE BELOW
\$ 254,560.76	\$ 257,106.37
OVERDUE AFTER	MAR 9, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER		BILLING PERIOD		DAYS USED	DATE MAILED	NEXT METER READING DATE					
0054-978503		DEC 31, 92 FEB 2, 93		33	FEB 12, 93	MAR 4, 93					
CURRENT READING METHOD	CURRENT READING	-	PREVIOUS READING	-	UNMETERED GAS LIGHT	=	CCF OF GAS USED	X	THERMS PER CCF	=	TOTAL THERMS
READ BY COMPANY	2438000		1740000				698,0000		1.014		707,772.0
CHARGES FOR GAS SERVICE AT:				6825 16TH ST NW #BLRM							

CURRENT GAS USAGE - 707,772.0 THERMS @ \$.3481
INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

\$246,375.43
8,185.33

BUDGET PLAN INFORMATION				AMOUNT DUE NOW	\$
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE			254,560.76
\$	\$	\$	AMOUNT DUE AFTER MAR 9, 93	\$	257,106.37



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____



Washington Gas

District of Columbia Division

P.O. Box 1432
Washington, D.C. 20081-0001

- Telephone: (703) 750-1000
- Please Give Account Number

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously elected an amount, do not check box.

Fuel Fund Donation	S
Gas Bill Payment	S
Total Payment	S

BILLS ARE DUE WHEN RENDERED.

ACCOUNT NUMBER 0054-978507

WALTER REED ARMY MED CTR
C/O ATTN HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

AMOUNT DUE NOW	AMOUNT DUE AFTER DATE BELOW
S 483,088.26	S 487,919.14
OVERDUE AFTER	APR 6, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE
0054-978503	FEB 2, 92 MAR 4, 93	30	MAR 12, 93	APR 2, 93

CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	=	CCF OF GAS USED	X	THERMS PER CCF	=	TOTAL THER
READ BY COMPANY	3064000	2438000			626,000		1.015		635,390.0

CHARGES FOR GAS SERVICE AT:

6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL
CURRENT GAS USAGE - 635,390.0 THERMS @ \$.3481
INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

\$254,560.76
221,179.26
7,348.24

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	S	483,088.26
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE			
S	S	S	AMOUNT DUE AFTER APR 6, 93	S	487,919.14



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE _____

AMOUNT OF CHECK S _____

TAX DEDUCTIBLE WAFF CONTRIBUTION S _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER: 0054-978507

WALTER REED ARMY MED CTR
C/O ATTN HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

APR 20 1993

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously pledged an amount, do not check box.

<input type="checkbox"/> Fuel Fund Donation	\$
<input type="checkbox"/> Gas Bill Payment	\$
<input type="checkbox"/> Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	NO PAYMENT DUE
AMOUNT DUE AFTER DATE BELOW	\$
OVERDUE AFTER	

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE
0054-978503	MAR 4, 93 - APR 2, 93	29	APR 14, 93	APR 30, 93
CURRENT READING METHOD	CURRENT READING - PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED X THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	3612000 3064000		548,000 1.019	558,412.0
CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM				
CURRENT GAS USAGE - 558,412.0 THERMS @ \$.3481			\$194,383.22	
INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%			6,457.99	
OVERPAYMENT APRIL 7, 1993			254,560.76CR	

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	\$
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE		53,719.55CR
\$	\$	\$	AMOUNT DUE AFTER	NO PAYMENT DUE



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____	DATE _____
AMOUNT OF CHECK \$ _____	
TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____	

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER 0054-978507

WALTER REED ARMY MED CTR
C/O ATTN HSHL-E BLDG OFF
6825 16TH ST NW
WASH DC 20012

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you do not wish to contribute, please leave the box blank.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW:	\$ 88,787.89
AMOUNT DUE AFTER DATE BELOW	\$ 89,675.77
OVERDUE AFTER	JUNE 3, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE		
0054-978503	APR 2, 93 APR 30, 93	28	MAY 12, 93	JUNE 1, 93		
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	METERED GAS USED	COF OF GAS USED	THERMS PER COF	TOTAL THERMS
READ BY COMPANY	4025000	3612000	413,000	1.016	419,608.0	
CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM						
<p>CURRENT GAS USAGE - 419,608.0 THERMS @ \$.3287</p> <p>INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%</p> <p>OVERPAYMENT APRIL 7, 1993</p> <p style="text-align: right;">\$137,925.15 4,582.29 53,719.55CR</p>						

RECEIVED
5-25-93

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	\$	88,787.89
\$	\$	\$	AMOUNT DUE AFTER JUNE 3, 93	\$ 89,675.77



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER

0054.978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously checked an amount, do not check box.

Fuel Fund Donation \$

Gas Bill Payment \$

Total Payment \$ 120,429.57

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW \$ 279,217.40

AMOUNT DUE AFTER DATE BELOW \$ 280,849.08

DEQUE AFTER JUL 1, 93 &

00549785070000000000000000

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE
0054.978507	APR 30, 93 JUN 1, 93	32	JUN 10, 93	JUL 2, 93

CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	X	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	4230000	4025000		205,000		1.025	210,125.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL	\$-88,787.89
CURRENT GAS USAGE - 210,125.0 THERMS @ \$.3426	71,988.83
INCREASE IN DC GROSS RECEIPTS TAX	2,391.68
ADJUSTMENT	26,049.00
ADJUSTMENT <i>1/thermically</i>	90,000.00

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (703)750-1000
WE ARE EASIEST TO REACH TUESDAY - THURSDAY AFTER 10 AM.

BUDGET PLAN INFORMATION			AMOUNT DUE NOW
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	\$ 279,217.40
\$	\$	\$	AMOUNT DUE AFTER JUL 1, 93 \$ 280,849.08



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

ACCOUNT NUMBER 0054.978507

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone: (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER 0054.978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

Handwritten signature

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

BILLS ARE DUE WHEN RENDERED

AMOUNT DUE NOW	\$ 793,560.23
AMOUNT DUE AFTER DATE BELOW	\$ 795,238.17
OVERDUE AFTER	AUG 2, 93

00549785070000000000000000

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE
0054.978507	JUN 1, 93 JUN 30, 93	29	JUL 12, 93	AUG 3, 93

CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	=	COF OF GAS USED	X	THERMS PER CCF	=	TOTAL THERMS
READ BY COMPANY	4381000	4230000			151,000		1.031		155,681.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL	\$190,429.51
LATE PAYMENT CHARGE ASSESSED	1,904.30
CURRENT GAS USAGE - 155,681.0 THERMS @ \$.3426	53,336.31
INCREASE IN DC GROSS RECEIPTS TAX	1,771.99
UTILITY TAX ADJUSTMENT	71,118.12
UTILITY TAX ADJUSTMENT	95,000.00
UTILITY TAX ADJUSTMENT	95,000.00
UTILITY TAX ADJUSTMENT	95,000.00
UTILITY TAX ADJUSTMENT	95,000.00
UTILITY TAX ADJUSTMENT	95,000.00

I note no flow rate adjustment already paid

STO 12 June

A PAYMENT OF \$88,787.89 WAS RECEIVED ON 06/16/93.

*12 Aug reschedule & will be notify in 10 w/d
C. S. M. Sullivan*

BAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW
\$	\$	\$	\$ 793,560.23
			AMOUNT DUE AFTER AUG 2, 93
			\$ 795,238.17



Washington Gas

District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

ACCOUNT NUMBER 0054.978507

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER **0054.978507**

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

Not paid

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you previously pledged an amount, do not check box.

Fuel Fund Donation \$

Gas Bill Payment \$

Total Payment \$

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW \$ **291,156.00**

AMOUNT DUE AFTER DATE BELOW \$ **292,851.84**

PERIOD AFTER **AUG 31, 93** &

00549785070000000000000000

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE
0054.978507	SERVICE TO JUL 30, 93	30	AUG 25, 93	
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED X THERMS PER CCF = TOTAL THERMS
READ BY COMPANY	4612000			

CHARGES FOR GAS SERVICE AT: **6825 16TH ST NW #BLRM**

CORRECTED BILL

GAS SERVICE
ADJUSTMENT
ADJUSTMENT
ADJUSTMENT

July Usage
\$86,094.51 for 231,000 ~~therms~~ CCF

June + July Usage
\$141,753.89
77,263.20
- 70,215.57%
(late charges) 1,923.34

A PAYMENT OF \$186,118.12 WAS RECEIVED ON 07/29/93.

\$546,118.12 actually received

late charge waived per Mr. Halton
not 1993 \$1,695.84



BUDGET PLAN INFORMATION			AMOUNT DUE NOW	\$	291,156.00
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE			
S	S	S	AMOUNT DUE AFTER	AUG 31, 93	\$ 292,851.84



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

ACCOUNT NUMBER **0054.978507**

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER

0054.978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

Fuel Don.	1	\$
Gas Bill Payment		\$
Total Payment		\$ 83072 ⁰⁹

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	\$	374,518.92
AMOUNT DUE AFTER DATE BELOW	\$	376,673.01
OVERDUE AFTER		SEP 30, 93

00549785070000000000000000000000

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD		DAYS USED	DATE MAILED	NEXT METER READING DATE	
0054.978507	JUL 30, 93	AUG 30, 93	31	SEP 9, 93	OCT 1, 93	
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	4840000	4612000		228,000	1.021	232,788.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL	\$213,322.68
LATE PAYMENT CHARGE ASSESSED	860.95
CURRENT GAS USAGE - 232,788.0 THERMS @ \$.3533	82,244.00 ✓
INCREASE IN DC GROSS RECEIPTS TAX ADJUSTMENT	2,732.39 ✓
OVERPAYMENT SEP 8, 93	77,263.20
	1,904.30 CR ✓

paid 82244.00
2732.39
credit 1904.30

83072⁰⁹

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE		\$ 374,518.92
\$	\$	\$	AMOUNT DUE AFTER SEP 30, 93	\$ 376,673.01



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO.	DATE:
AMOUNT OF CHECK \$	
TAX DEDUCTIBLE WAFF CONTRIBUTION \$	

ACCOUNT NUMBER 0054.978507

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone: (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER: 0054.978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

You wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have a metered gas account, check the box.

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	\$ 185,757.27
AMOUNT DUE AFTER DATE BELOW	\$ 185,757.27
PERIOD AFTER	OCT 18, 93

005497850700000000000000000000

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS

ACCOUNT NUMBER					BILLING PERIOD		DAYS USED	DATE MAILED		NEXT METER READING DATE	
0054.978507		SERVICE TO		AUG 30, 93		31	SEP 27, 93				
CURRENT READING METHOD		CURRENT READING		PREVIOUS READING		UNMETERED GAS LIGHT		= CCF OF GAS USED		X THERMS PER CCF = TOTAL THERMS	
READ BY COMPANY		4840000									

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

CORRECTED BILL

GAS SERVICE OVERPAYMENT SEP 23, 93

\$226,124.20
40,421.93

June
July Bill of 8609451
Aug

Included in the Bill
per Mrs Sawha. 2 Nov 93

BUDGET PLAN INFORMATION				AMOUNT DUE NOW		
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE		\$	185,757.27	
S	S	S		AMOUNT DUE AFTER	OCT 18, 93	\$ 185,757.27



Washington Gas
District of Columbia Division

ACCOUNT NUMBER 0054.978507

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____
AMOUNT OF CHECK \$ _____
TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER: 0054.978507 *02

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously indicated an amount, do not check box.

Fue. d Donation	\$
Gas Bill Payment	\$
Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	\$ 188,779.69
AMOUNT DUE AFTER DATE BELOW	\$ 189,640.64
OVERDUE AFTER	OCT 29, 93

0054978507000000000000000000000000

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE		
0054.978507	AUG 30, 93 SEP 29, 93	30	OCT 8, 93	NOV 1, 93		
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS LIGHT	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS
READ BY COMPANY	5071000	4840000		231,000	1.021	235,851.0

CHARGES FOR GAS SERVICE AT: 6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL \$102,685.41
CURRENT GAS USAGE - 235,851.0 THERMS @ \$.3533 83,326.11
INCREASE IN GROSS RECEIPTS TAX 21768.33

A PAYMENT OF \$83,072.09 WAS RECEIVED ON 09/27/93.

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (703) 750-1000
WE ARE EASIEST TO REACH TUESDAY - THURSDAY AFTER 10 AM.

14 Oct 93
I called after 5 and talked
with Mr. Johnson. He said
not to pay the bill just yet.
They were working on the
acct.

M. Coriell

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	\$ 188,779.69
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE		
\$	\$	\$	AMOUNT DUE AFTER	OCT 29, 93 \$ 189,640.64



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____	DATE: _____
AMOUNT OF CHECK \$ _____	
TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____	

ACCOUNT NUMBER 0054.978507

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

TELEPHONE (703) 750-1000



Washington Gas

District of Columbia Division

Telephone (703) 750-1000

Please Give Account Number

ACCOUNT NUMBER:

0054-978507

WALTER REED ARMY MED CTR
C/O ATT HSHL-E BLDG OFF
6825 16TH ST NW #BLRM
WASH DC 20012

If you wish to contribute to the Washington Area Fuel Fund, check box and indicate amount.
I have added an amount to my payment of \$

Fuel Fund Donation	\$
Gas Bill Payment	\$
Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	\$ 546,118.12
AMOUNT DUE AFTER DATE BELOW	\$
	NET ONLY
OVERDUE AFTER	JULY 27, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD	DAYS USED	DATE MAILED	NEXT METER READING DATE		
0054-978507	2/19/93 - 6/1/93		JUNE 25, 93			
CURRENT READING METHOD	CURRENT READING	PREVIOUS READING	UNMETERED GAS/LIGHT	CCF OF GAS USED	THERMS PER CCF	TOTAL THERMS

CHARGES FOR GAS SERVICE AT:

6825 16TH ST NW #BLRM

AMOUNT BILLED AT FIRM RATE \$ 1,015,685.78
AMOUNT BILLED AT INTERRUPTIBLE RATE 469,567.66

paid

202-624-6763

BUDGET PLAN INFORMATION			AMOUNT DUE NOW	\$ 546,118.12
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE		
\$	\$	\$	JULY 27, 93	NET ONLY
			AMOUNT DUE AFTER	\$



Washington Gas
District of Columbia Division

FOR YOUR RECORDS

CHECK NO. _____ DATE: _____

AMOUNT OF CHECK \$ _____

TAX DEDUCTIBLE WAFF CONTRIBUTION \$ _____

ATTACHMENT D

**Electric Rate Analysis
and
PEPCO Electric Billings**

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Billing and Client Information

Client	Walter Reed Main Meter
Billing Year	1994
Billing Period	September
# of Billing Days	33
Enter "1" for Nov-May, 0 for Jun-Oct	0
Rates Schedule in Effect	Summer

Demand and Usage Information

Supply Voltage	13,200
<i>Demand Measurements</i>	
On-Peak Demand (kW)	15,220
Maximum Demand (kW)	15,270
<i>Usage Measurements</i>	
On-Peak Period (kWh)	2,257,000
Intermediate Period (kWh)	2,160,000
Off-Peak Period (kWh)	4,694,000
Registered Power Factor	100.00%

Taxes and Special Adjustments

Fuel Adjustments Rate	\$0.0035999
DC Gross Receipts Adjustment	3.67%
<i>Clean Air Act Surcharge</i>	
Charge to On-Peak \$/kWh	\$0.0575469
Charge to Intermediate \$/kWh	\$0.0420369
Charge to Off-Peak \$/kWh	\$0.0292869



Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Duplicated Electric Bill

Customer Charge	1 Bill @	\$21.30	Per Bill =	\$21.30
<i>On-Peak Usage Charge</i>				
Base Rate Charge	2,257,000 kWh @	\$0.05714000	Per kWh =	\$128,964.98
Clean Air Act Charge	2,257,000 kWh @	\$0.00040688	Per kWh =	\$918.32
<i>Intermediate Usage Charge</i>				
Base Rate Charge	2,160,000 kWh @	\$0.04163000	Per kWh =	\$89,920.80
Clean Air Act Charge	2,160,000 kWh @	\$0.00040688	Per kWh =	\$878.86
<i>Off-Peak Usage Charge</i>				
Base Rate Charge	4,694,000 kWh @	\$0.02888000	Per kWh =	\$135,562.72
Clean Air Act Charge	4,694,000 kWh @	\$0.00040688	Per kWh =	\$1,909.88
<i>Demand Charges</i>				
Maximum Demand Charge	15,270 kW @	\$6.70	Per kW =	\$102,309.00
On-Peak Demand Charge	15,270 kW @	\$10.65	Per kW =	\$162,093.00
Curtailment Credit	0 kW			\$0.00
Curtailment Penalty	0 kW			\$0.00
Voltage Discount	5.00 % x	\$618,871.80	Subtotal =	(\$30,943.59)
Fuel Adjustment	\$0.0035999 \$/kWh x	9,111,000	Subtotal =	\$32,798.68
DC Gross Receipts Adjust.	3.67 % x	\$624,433.95	Subtotal =	\$22,895.93
				CURRENT PERIOD CHARGES: \$647,329.88

Calculated Incremental

Incremental Cost Per kW	\$17.09
Incremental Cost Per On-Peak kWh	\$0.06043
Incremental Cost Per Intermediate kWh	\$0.04515
Incremental Cost Per Off-Peak kWh	\$0.03260

Calculated Billing Statistics Based on Incremental Costs

Demand Cost	\$260,061.99	Energy Cost	\$386,916.99
% Demand	40.2%	% Energy	59.8%
Load Factor	75.3%	Power Factor Penalty	\$0.00

Current Electric Tariff (Rate HT)

	Summer	Winter
Customer Charge (\$/Bill)	\$21.30	\$21.30
On-Peak Demand Charge (\$/kW)	\$10.65	\$0.00
Maximum Demand Charge (\$/kW)	\$6.7000	\$6.7000
On-Peak Usage Charge (\$/kWh)	\$0.057140	\$0.047270
Intermediate Usage Charge (\$/kWh)	\$0.041630	\$0.040820
Off-Peak Usage Charge (\$/kWh)	\$0.028880	\$0.031010
Clean Air Act On-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Intermediate Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Off-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Effective Power Factor (All kW)	85%	85%

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Electric Bill Calculation

Calculation Description	Actual Billing	Demand, kW Minus 1 kW	On-Peak Usage Minus 1 kWh	Intermediate Minus 1 kWh	Off-Peak Minus 1 kWh	100% Power Factor
On-Peak Demand (kW)	15,220	15,219	15,220	15,220	15,220	15,220
Maximum Demand (kW)	15,270	15,269	15,270	15,270	15,270	15,270
On-Peak Usage (kWh)	2,257,000	2,257,000	2,256,999	2,257,000	2,257,000	2,257,000
Intermediate Usage (kWh)	2,160,000	2,160,000	2,160,000	2,159,999	2,160,000	2,160,000
Off-Peak Usage (kWh)	4,694,000	4,694,000	4,694,000	4,694,000	4,693,999	4,694,000
Total Usage (kWh)	9,111,000	9,111,000	9,110,999	9,110,999	9,110,999	9,111,000
Fuel Adjustment Rate (\$/kWh)	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999
DC Gross Receipts Adjustment	3.67%	3.67%	3.67%	3.67%	3.67%	3.67%
Clean Air Act Added \$/kWh, On-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Intermediate k	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Off-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Registered Power Factor	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
<i>Breakdown Calculations</i>						
Power Factor Adjustment, 85%, On-Peak kW	0	0	0	0	0	0
Power Factor Adjustment, 85%, Maximum k	0	0	0	0	0	0
Billing On-Peak Demand (kW)	15,220	15,219	15,220	15,220	15,220	15,220
Billing Maximum Demand (kW)	15,270	15,269	15,270	15,270	15,270	15,270
On-Peak Usage (kWh)	2,257,000	2,257,000	2,256,999	2,257,000	2,257,000	2,257,000
Intermediate Usage (kWh)	2,160,000	2,160,000	2,160,000	2,159,999	2,160,000	2,160,000
Off-Peak Usage (kWh)	4,694,000	4,694,000	4,694,000	4,694,000	4,693,999	4,694,000
<i>Cost Calculation</i>						
Customer Charge, \$	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30
Off-Peak kWh Base Rate Charge, \$	\$135,562.72	\$135,562.72	\$135,562.72	\$135,562.72	\$135,562.69	\$135,562.72
Intermediate kWh Base Rate Charge, \$	\$89,920.80	\$89,920.80	\$89,920.80	\$89,920.76	\$89,920.80	\$89,920.80
On-Peak kWh Base Rate Charge, \$	\$128,964.98	\$128,964.98	\$128,964.92	\$128,964.98	\$128,964.98	\$128,964.98
Clean Air Act Off-Peak Charge, \$	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88
Clean Air Act Intermediate Charge, \$	\$878.86	\$878.86	\$878.86	\$878.86	\$878.86	\$878.86
Clean Air Act On-Peak Charge, \$	\$918.32	\$918.32	\$918.32	\$918.32	\$918.32	\$918.32
On-Peak Demand Charge, \$	\$162,093.00	\$162,082.35	\$162,093.00	\$162,093.00	\$162,093.00	\$162,093.00
Maximum Demand Charge, \$	\$102,309.00	\$102,302.30	\$102,309.00	\$102,309.00	\$102,309.00	\$102,309.00
Subtotal, \$ (Without Clean Air Act)	\$618,871.80	\$618,854.45	\$618,871.74	\$618,871.76	\$618,871.77	\$618,871.80
Subtotal, \$ (With Clean Air Act)	\$622,578.86	\$622,561.51	\$622,578.80	\$622,578.82	\$622,578.83	\$622,578.86
Voltage Discount	(\$30,943.59)	(\$30,942.72)	(\$30,943.59)	(\$30,943.59)	(\$30,943.59)	(\$30,943.59)
Fuel Cost Adjustment	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68
Subtotal (With Clean Air Act)	\$624,433.95	\$624,417.47	\$624,433.89	\$624,433.91	\$624,433.92	\$624,433.95
Subtotal (Without Clean Air Act)	\$620,726.89	\$620,710.41	\$620,726.83	\$620,726.85	\$620,726.86	\$620,726.89
DC Gross Receipts Adjustment	\$22,895.93	\$22,895.33	\$22,895.93	\$22,895.93	\$22,895.93	\$22,895.93
Net Current Bill	\$647,329.88	\$647,312.79	\$647,329.82	\$647,329.83	\$647,329.85	\$647,329.88
Incremental/Penalties	n/a	\$17.09	\$0.06043	\$0.04515	\$0.03260	\$0.00000

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Incremental Cost Check

<u>\$ Calculations on Incrementals</u>			
Demand (\$)	15,220 kW x	\$17.09 /kW =	\$260,061.99
Off-Peak Usage (\$)	4,694,000 kWh	\$0.033 /kW =	\$153,004.12
Intermediate Usage (\$)	2,160,000 kWh	\$0.045 /kW =	\$97,528.98
On-Peak Usage (\$)	2,257,000 kWh	\$0.060 /kW =	\$136,383.89
Total Calculated Billing Using Incrementals			\$646,978.98
Actual Current Period Charges			\$647,329.88
Cost Variance (Actual Minus Incremental)			\$350.90
Percent Variance (Var/Actual)			0.1%

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Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Billing and Client Information

Client	Walter Reed Main Meter
Billing Year	1994
Billing Period	December
# of Billing Days	33
Enter "1" for Nov-May, 0 for Jun-Oct	1
Rates Schedule in Effect	Winter

Demand and Usage Information

Supply Voltage	13,200
<i>Demand Measurements</i>	
On-Peak Demand (kW)	15,220
Maximum Demand (kW)	15,270
<i>Usage Measurements</i>	
On-Peak Period (kWh)	2,257,000
Intermediate Period (kWh)	2,160,000
Off-Peak Period (kWh)	4,694,000
Registered Power Factor	100.00%

Taxes and Special Adjustments

Fuel Adjustments Rate	\$0.0035999
DC Gross Receipts Adjustment	3.67%
<i>Clean Air Act Surcharge</i>	
Charge to On-Peak \$/kWh	\$0.0476769
Charge to Intermediate \$/kWh	\$0.0412269
Charge to Off-Peak \$/kWh	\$0.0314169



Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Duplicated Electric Bill

Customer Charge	1 Bill @	\$21.30	Per Bill =	\$21.30
<i>On-Peak Usage Charge</i>				
Base Rate Charge	2,257,000 kWh @	\$0.04727000	Per kWh =	\$106,688.39
Clean Air Act Charge	2,257,000 kWh @	\$0.00040688	Per kWh =	\$918.32
<i>Intermediate Usage Charge</i>				
Base Rate Charge	2,160,000 kWh @	\$0.04082000	Per kWh =	\$88,171.20
Clean Air Act Charge	2,160,000 kWh @	\$0.00040688	Per kWh =	\$878.86
<i>Off-Peak Usage Charge</i>				
Base Rate Charge	4,694,000 kWh @	\$0.03101000	Per kWh =	\$145,560.94
Clean Air Act Charge	4,694,000 kWh @	\$0.00040688	Per kWh =	\$1,909.88
<i>Demand Charges</i>				
Maximum Demand Charge	15,270 kW @	\$6.70	Per kW =	\$102,309.00
On-Peak Demand Charge	0 kW @	\$10.65	Per kW =	\$0.00
Curtailment Credit	0 kW			\$0.00
Curtailment Penalty	0 kW			\$0.00
Voltage Discount	5.00 % x	\$442,750.83	Subtotal =	(\$22,137.54)
Fuel Adjustment	\$0.0035999 \$/kWh x	9,111,000	Subtotal =	\$32,798.68
DC Gross Receipts Adjust.	3.67 % x	\$457,119.03	Subtotal =	\$16,761.04
				CURRENT PERIOD CHARGES. \$473,880.07

Calculated Incremental

Incremental Cost Per kW	\$6.60
Incremental Cost Per On-Peak kWh	\$0.05071
Incremental Cost Per Intermediate kWh	\$0.04435
Incremental Cost Per Off-Peak kWh	\$0.03469

Calculated Billing Statistics Based on Incremental Costs

Demand Cost	\$100,427.40	Energy Cost	\$373,101.78
% Demand	21.2%	% Energy	78.7%
Load Factor	75.3%	Power Factor Penalty	\$0.00

Current Electric Tariff (Rate HT)

	Summer	Winter
Customer Charge (\$/Bill)	\$21.30	\$21.30
On-Peak Demand Charge (\$/kW)	\$10.65	\$0.00
Maximum Demand Charge (\$/kW)	\$6.7000	\$6.7000
On-Peak Usage Charge (\$/kWh)	\$0.057140	\$0.047270
Intermediate Usage Charge (\$/kWh)	\$0.041630	\$0.040820
Off-Peak Usage Charge (\$/kWh)	\$0.028880	\$0.031010
Clean Air Act On-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Intermediate Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Off-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Effective Power Factor (All kW)	85%	85%

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Electric Bill Calculation

Calculation Description	Actual Billing	Demand, kW Minus 1 kW	On-Peak Usage Minus 1 kWh	Intermediate Minus 1 kWh	Off-Peak Minus 1 kWh	100% Power Factor
On-Peak Demand (kW)	15,220	15,219	15,220	15,220	15,220	15,220
Maximum Demand (kW)	15,270	15,269	15,270	15,270	15,270	15,270
On-Peak Usage (kWh)	2,257,000	2,257,000	2,256,999	2,257,000	2,257,000	2,257,000
Intermediate Usage (kWh)	2,160,000	2,160,000	2,160,000	2,159,999	2,160,000	2,160,000
Off-Peak Usage (kWh)	4,694,000	4,694,000	4,694,000	4,694,000	4,693,999	4,694,000
Total Usage (kWh)	9,111,000	9,111,000	9,110,999	9,110,999	9,110,999	9,111,000
Fuel Adjustment Rate (\$/kWh)	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999
DC Gross Receipts Adjustment	3.67%	3.67%	3.67%	3.67%	3.67%	3.67%
Clean Air Act Added \$/kWh, On-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Intermediate k	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Off-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Registered Power Factor	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
<i>Breakdown Calculations</i>						
Power Factor Adjustment, 85%, On-Peak kW	0	0	0	0	0	0
Power Factor Adjustment, 85%, Maximum k	0	0	0	0	0	0
Billing On-Peak Demand (kW)	15,220	15,219	15,220	15,220	15,220	15,220
Billing Maximum Demand (kW)	15,270	15,269	15,270	15,270	15,270	15,270
On-Peak Usage (kWh)	2,257,000	2,257,000	2,256,999	2,257,000	2,257,000	2,257,000
Intermediate Usage (kWh)	2,160,000	2,160,000	2,160,000	2,159,999	2,160,000	2,160,000
Off-Peak Usage (kWh)	4,694,000	4,694,000	4,694,000	4,694,000	4,693,999	4,694,000
<i>Cost Calculation</i>						
Customer Charge, \$	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30
Off-Peak kWh Base Rate Charge, \$	\$145,560.94	\$145,560.94	\$145,560.94	\$145,560.94	\$145,560.91	\$145,560.94
Intermediate kWh Base Rate Charge, \$	\$88,171.20	\$88,171.20	\$88,171.20	\$88,171.16	\$88,171.20	\$88,171.20
On-Peak kWh Base Rate Charge, \$	\$106,688.39	\$106,688.39	\$106,688.34	\$106,688.39	\$106,688.39	\$106,688.39
Clean Air Act Off-Peak Charge, \$	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88
Clean Air Act Intermediate Charge, \$	\$878.86	\$878.86	\$878.86	\$878.86	\$878.86	\$878.86
Clean Air Act On-Peak Charge, \$	\$918.32	\$918.32	\$918.32	\$918.32	\$918.32	\$918.32
On-Peak Demand Charge, \$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Maximum Demand Charge, \$	\$102,309.00	\$102,302.30	\$102,309.00	\$102,309.00	\$102,309.00	\$102,309.00
Subtotal, \$ (Without Clean Air Act)	\$442,750.83	\$442,744.13	\$442,750.78	\$442,750.79	\$442,750.80	\$442,750.83
Subtotal, \$ (With Clean Air Act)	\$446,457.89	\$446,451.19	\$446,457.84	\$446,457.85	\$446,457.86	\$446,457.89
Voltage Discount	(\$22,137.54)	(\$22,137.21)	(\$22,137.54)	(\$22,137.54)	(\$22,137.54)	(\$22,137.54)
Fuel Cost Adjustment	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68
Subtotal (With Clean Air Act)	\$457,119.03	\$457,112.66	\$457,118.98	\$457,118.99	\$457,118.99	\$457,119.03
Subtotal (Without Clean Air Act)	\$453,411.97	\$453,405.60	\$453,411.92	\$453,411.93	\$453,411.94	\$453,411.97
DC Gross Receipts Adjustment	\$16,761.04	\$16,760.81	\$16,761.04	\$16,761.04	\$16,761.04	\$16,761.04
Net Current Bill	\$473,880.07	\$473,873.47	\$473,880.02	\$473,880.03	\$473,880.04	\$473,880.07
Incremental/Penalties	n/a	\$6.60	\$0.05071	\$0.04435	\$0.03469	\$0.00000

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Incremental Cost Check

<u>\$ Calculations on Incrementals</u>			
Demand (\$)	15,220 kW x	\$6.60 /kW =	\$100,427.40
Off-Peak Usage (\$)	4,694,000 kWh	\$0.035 /kW =	\$162,850.70
Intermediate Usage (\$)	2,160,000 kWh	\$0.044 /kW =	\$95,805.92
On-Peak Usage (\$)	2,257,000 kWh	\$0.051 /kW =	\$114,445.17
Total Calculated Billing Using Incrementals			\$473,529.18
Actual Current Period Charges			\$473,880.07
Cost Variance (Actual Minus Incremental)			\$350.90
Percent Variance (Var/Actual)			0.1%

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Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Billing and Client Information

Client	Walter Reed Bldg. 54
Billing Year	1994
Billing Period	September
# of Billing Days	33
Enter "1" for Nov-May, 0 for Jun-Oct	0
Rates Schedule in Effect	Summer

Demand and Usage Information

Supply Voltage	13,200
<i>Demand Measurements</i>	
On-Peak Demand (kW)	2,844
Maximum Demand (kW)	2,844
<i>Usage Measurements</i>	
On-Peak Period (kWh)	401,200
Intermediate Period (kWh)	391,800
Off-Peak Period (kWh)	839,900
Registered Power Factor	100.00%

Taxes and Special Adjustments

Fuel Adjustments Rate	\$0.0035999
DC Gross Receipts Adjustment	3.67%
<i>Clean Air Act Surcharge</i>	
Charge to On-Peak \$/kWh	\$0.0575469
Charge to Intermediate \$/kWh	\$0.0420369
Charge to Off-Peak \$/kWh	\$0.0292868



Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Duplicated Electric Bill

Customer Charge	1 Bill @	\$21.30	Per Bill =	\$21.30
<i>On-Peak Usage Charge</i>				
Base Rate Charge	401,200 kWh @	\$0.05714000	Per kWh =	\$22,924.57
Clean Air Act Charge	401,200 kWh @	\$0.00040688	Per kWh =	\$163.24
<i>Intermediate Usage Charge</i>				
Base Rate Charge	391,800 kWh @	\$0.04163000	Per kWh =	\$16,310.63
Clean Air Act Charge	391,800 kWh @	\$0.00040686	Per kWh =	\$159.41
<i>Off-Peak Usage Charge</i>				
Base Rate Charge	839,900 kWh @	\$0.02888000	Per kWh =	\$24,256.31
Clean Air Act Charge	839,900 kWh @	\$0.00040684	Per kWh =	\$341.71
<i>Demand Charges</i>				
Maximum Demand Charge	2,844 kW @	\$6.70	Per kW =	\$19,054.80
On-Peak Demand Charge	2,844 kW @	\$10.65	Per kW =	\$30,288.60
Curtailment Credit	0 kW			\$0.00
Curtailment Penalty	0 kW			\$0.00
Voltage Discount	5.00 % x	\$112,856.21	Subtotal =	(\$5,642.81)
Fuel Adjustment	\$0.0035999 \$/kWh x	1,632,900	Subtotal =	\$5,878.28
DC Gross Receipts Adjust.	3.67 % x	\$113,756.03	Subtotal =	\$4,171.06
CURRENT PERIOD CHARGES:				\$117,927.09

Calculated Incremental

Incremental Cost Per kW	\$17.09
Incremental Cost Per On-Peak kWh	\$0.06043
Incremental Cost Per Intermediate kWh	\$0.04515
Incremental Cost Per Off-Peak kWh	\$0.03260

Calculated Billing Statistics Based on Incremental Costs

Demand Cost	\$48,595.03	Energy Cost	\$69,311.09
% Demand	41.2%	% Energy	58.8%
Load Factor	72.5%	Power Factor Penalty	\$0.00

Current Electric Tariff (Rate HT)

	Summer	Winter
Customer Charge (\$/Bill)	\$21.30	\$21.30
On-Peak Demand Charge (\$/kW)	\$10.65	\$0.00
Maximum Demand Charge (\$/kW)	\$6.7000	\$6.7000
On-Peak Usage Charge (\$/kWh)	\$0.057140	\$0.047270
Intermediate Usage Charge (\$/kWh)	\$0.041630	\$0.040820
Off-Peak Usage Charge (\$/kWh)	\$0.028880	\$0.031010
Clean Air Act On-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Intermediate Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Off-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Effective Power Factor (All kW)	85%	85%

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Electric Bill Calculation

Calculation Description	Actual Billing	Demand, kW Minus 1 kW	On-Peak Usage Minus 1 kWh	Intermediate Minus 1 kWh	Off-Peak Minus 1 kWh	100% Power Factor
On-Peak Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
Maximum Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
On-Peak Usage (kWh)	401,200	401,200	401,199	401,200	401,200	401,200
Intermediate Usage (kWh)	391,800	391,800	391,800	391,799	391,800	391,800
Off-Peak Usage (kWh)	839,900	839,900	839,900	839,900	839,899	839,900
Total Usage (kWh)	1,632,900	1,632,900	1,632,899	1,632,899	1,632,899	1,632,900
Fuel Adjustment Rate (\$/kWh)	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999
DC Gross Receipts Adjustment	3.67%	3.67%	3.67%	3.67%	3.67%	3.67%
Clean Air Act Added \$/kWh, On-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Intermediate k	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Off-Peak kWh	\$0.0004068	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Registered Power Factor	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
<i>Breakdown Calculations</i>						
Power Factor Adjustment, 85%, On-Peak kW	0	0	0	0	0	0
Power Factor Adjustment, 85%, Maximum k	0	0	0	0	0	0
Billing On-Peak Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
Billing Maximum Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
On-Peak Usage (kWh)	401,200	401,200	401,199	401,200	401,200	401,200
Intermediate Usage (kWh)	391,800	391,800	391,800	391,799	391,800	391,800
Off-Peak Usage (kWh)	839,900	839,900	839,900	839,900	839,899	839,900
<i>Cost Calculation</i>						
Customer Charge, \$	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30
Off-Peak kWh Base Rate Charge, \$	\$24,256.31	\$24,256.31	\$24,256.31	\$24,256.31	\$24,256.28	\$24,256.31
Intermediate kWh Base Rate Charge, \$	\$16,310.63	\$16,310.63	\$16,310.63	\$16,310.59	\$16,310.63	\$16,310.63
On-Peak kWh Base Rate Charge, \$	\$22,924.57	\$22,924.57	\$22,924.51	\$22,924.57	\$22,924.57	\$22,924.57
Clean Air Act Off-Peak Charge, \$	\$341.71	\$341.71	\$341.71	\$341.71	\$341.71	\$341.71
Clean Air Act Intermediate Charge, \$	\$159.41	\$159.41	\$159.41	\$159.41	\$159.41	\$159.41
Clean Air Act On-Peak Charge, \$	\$163.24	\$163.24	\$163.24	\$163.24	\$163.24	\$163.24
On-Peak Demand Charge, \$	\$30,288.60	\$30,277.95	\$30,288.60	\$30,288.60	\$30,288.60	\$30,288.60
Maximum Demand Charge, \$	\$19,054.80	\$19,048.10	\$19,054.80	\$19,054.80	\$19,054.80	\$19,054.80
Subtotal, \$ (Without Clean Air Act)	\$112,856.21	\$112,838.86	\$112,856.16	\$112,856.17	\$112,856.19	\$112,856.21
Subtotal, \$ (With Clean Air Act)	\$113,520.57	\$113,503.22	\$113,520.51	\$113,520.53	\$113,520.54	\$113,520.57
Voltage Discount	(\$5,642.81)	(\$5,641.94)	(\$5,642.81)	(\$5,642.81)	(\$5,642.81)	(\$5,642.81)
Fuel Cost Adjustment	\$5,878.28	\$5,878.28	\$5,878.27	\$5,878.27	\$5,878.27	\$5,878.28
Subtotal (With Clean Air Act)	\$113,756.03	\$113,739.55	\$113,755.98	\$113,755.99	\$113,756.00	\$113,756.03
Subtotal (Without Clean Air Act)	\$113,091.68	\$113,075.20	\$113,091.62	\$113,091.64	\$113,091.65	\$113,091.68
DC Gross Receipts Adjustment	\$4,171.06	\$4,170.45	\$4,171.06	\$4,171.06	\$4,171.06	\$4,171.06
Net Current Bill	\$117,927.09	\$117,910.01	\$117,927.03	\$117,927.05	\$117,927.06	\$117,927.09
Incremental/Penalties	n/a	\$17.09	\$0.06043	\$0.04515	\$0.03260	\$0.00000

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Incremental Cost Check

\$ Calculations on Incrementals			
Demand (\$)	2,844 kW x	\$17.09 /kW =	\$48,595.03
Off-Peak Usage (\$)	839,900 kWh	\$0.033 /kW =	\$27,377.08
Intermediate Usage (\$)	391,800 kWh	\$0.045 /kW =	\$17,690.66
On-Peak Usage (\$)	401,200 kWh	\$0.060 /kW =	\$24,243.34
Total Calculated Billing Using Incrementals			\$117,906.12
Actual Current Period Charges			\$117,927.09
Cost Variance (Actual Minus Incremental)			\$20.98
Percent Variance (Var/Actual)			0.0%

0.0
0.0
0.0

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Billing and Client Information

Client	Walter Reed Bldg. 54
Billing Year	1994
Billing Period	December
# of Billing Days	33
Enter "1" for Nov-May, 0 for Jun-Oct	1
Rates Schedule in Effect	Winter

Demand and Usage Information

Supply Voltage	13,200
<i>Demand Measurements</i>	
On-Peak Demand (kW)	2,844
Maximum Demand (kW)	2,844
<i>Usage Measurements</i>	
On-Peak Period (kWh)	401,200
Intermediate Period (kWh)	391,800
Off-Peak Period (kWh)	839,900
Registered Power Factor	100.00%

Taxes and Special Adjustments

Fuel Adjustments Rate	\$0.0035999
DC Gross Receipts Adjustment	3.67%
<i>Clean Air Act Surcharge</i>	
Charge to On-Peak \$/kWh	\$0.0476769
Charge to Intermediate \$/kWh	\$0.0412269
Charge to Off-Peak \$/kWh	\$0.0314169



Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Duplicated Electric Bill

Customer Charge	1 Bill @	\$21.30	Per Bill =	\$21.30
<i>On-Peak Usage Charge</i>				
Base Rate Charge	401,200 kWh @	\$0.04727000	Per kWh =	\$18,964.72
Clean Air Act Charge	401,200 kWh @	\$0.00040688	Per kWh =	\$163.24
<i>Intermediate Usage Charge</i>				
Base Rate Charge	391,800 kWh @	\$0.04082000	Per kWh =	\$15,993.28
Clean Air Act Charge	391,800 kWh @	\$0.00040688	Per kWh =	\$159.42
<i>Off-Peak Usage Charge</i>				
Base Rate Charge	839,900 kWh @	\$0.03101000	Per kWh =	\$26,045.30
Clean Air Act Charge	839,900 kWh @	\$0.00040688	Per kWh =	\$341.74
<i>Demand Charges</i>				
Maximum Demand Charge	2,844 kW @	\$6.70	Per kW =	\$19,054.80
On-Peak Demand Charge	0 kW @	\$10.65	Per kW =	\$0.00
Curtailment Credit	0 kW			\$0.00
Curtailment Penalty	0 kW			\$0.00
Voltage Discount	5.00 % x	\$80,079.40	Subtotal =	(\$4,003.97)
Fuel Adjustment	\$0.0035999 \$/kWh x	1,632,900	Subtotal =	\$5,878.28
DC Gross Receipts Adjust.	3.67 % x	\$82,618.09	Subtotal =	\$3,029.33
CURRENT PERIOD CHARGES:				\$85,647.43

Calculated Incremental

Incremental Cost Per kW	\$6.60
Incremental Cost Per On-Peak kWh	\$0.05071
Incremental Cost Per Intermediate kWh	\$0.04435
Incremental Cost Per Off-Peak kWh	\$0.03469

Calculated Billing Statistics Based on Incremental Costs

Demand Cost	\$18,765.80	Energy Cost	\$66,860.65
% Demand	21.9%	% Energy	78.1%
Load Factor	72.5%	Power Factor Penalty	\$0.00

Current Electric Tariff (Rate HT)

	Summer	Winter
Customer Charge (\$/Bill)	\$21.30	\$21.30
On-Peak Demand Charge (\$/kW)	\$10.65	\$0.00
Maximum Demand Charge (\$/kW)	\$6.7000	\$6.7000
On-Peak Usage Charge (\$/kWh)	\$0.057140	\$0.047270
Intermediate Usage Charge (\$/kWh)	\$0.041630	\$0.040820
Off-Peak Usage Charge (\$/kWh)	\$0.028880	\$0.031010
Clean Air Act On-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Intermediate Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Off-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Effective Power Factor (All kW)	85%	85%

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Electric Bill Calculation

Calculation Description	Actual Billing	Demand, kW Minus 1 kW	On-Peak Usage Minus 1 kWh	Intermediate Minus 1 kWh	Off-Peak Minus 1 kWh	100% Power Factor
On-Peak Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
Maximum Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
On-Peak Usage (kWh)	401,200	401,200	401,199	401,200	401,200	401,200
Intermediate Usage (kWh)	391,800	391,800	391,800	391,799	391,800	391,800
Off-Peak Usage (kWh)	839,900	839,900	839,900	839,900	839,899	839,900
Total Usage (kWh)	1,632,900	1,632,900	1,632,899	1,632,899	1,632,899	1,632,900
Fuel Adjustment Rate (\$/kWh)	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999
DC Gross Receipts Adjustment	3.67%	3.67%	3.67%	3.67%	3.67%	3.67%
Clean Air Act Added \$/kWh, On-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Intermediate k	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Off-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Registered Power Factor	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
<i>Breakdown Calculations</i>						
Power Factor Adjustment, 85%, On-Peak kW	0	0	0	0	0	0
Power Factor Adjustment, 85%, Maximum k	0	0	0	0	0	0
Billing On-Peak Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
Billing Maximum Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
On-Peak Usage (kWh)	401,200	401,200	401,199	401,200	401,200	401,200
Intermediate Usage (kWh)	391,800	391,800	391,800	391,799	391,800	391,800
Off-Peak Usage (kWh)	839,900	839,900	839,900	839,900	839,899	839,900
<i>Cost Calculation</i>						
Customer Charge, \$	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30
Off-Peak kWh Base Rate Charge, \$	\$26,045.30	\$26,045.30	\$26,045.30	\$26,045.30	\$26,045.27	\$26,045.30
Intermediate kWh Base Rate Charge, \$	\$15,993.28	\$15,993.28	\$15,993.28	\$15,993.24	\$15,993.28	\$15,993.28
On-Peak kWh Base Rate Charge, \$	\$18,964.72	\$18,964.72	\$18,964.68	\$18,964.72	\$18,964.72	\$18,964.72
Clean Air Act Off-Peak Charge, \$	\$341.74	\$341.74	\$341.74	\$341.74	\$341.74	\$341.74
Clean Air Act Intermediate Charge, \$	\$159.42	\$159.42	\$159.42	\$159.42	\$159.42	\$159.42
Clean Air Act On-Peak Charge, \$	\$163.24	\$163.24	\$163.24	\$163.24	\$163.24	\$163.24
On-Peak Demand Charge, \$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Maximum Demand Charge, \$	\$19,054.80	\$19,048.10	\$19,054.80	\$19,054.80	\$19,054.80	\$19,054.80
Subtotal, \$ (Without Clean Air Act)	\$80,079.40	\$80,072.70	\$80,079.35	\$80,079.36	\$80,079.37	\$80,079.40
Subtotal, \$ (With Clean Air Act)	\$80,743.79	\$80,737.09	\$80,743.74	\$80,743.75	\$80,743.76	\$80,743.79
Voltage Discount	(\$4,003.97)	(\$4,003.63)	(\$4,003.97)	(\$4,003.97)	(\$4,003.97)	(\$4,003.97)
Fuel Cost Adjustment	\$5,878.28	\$5,878.28	\$5,878.27	\$5,878.27	\$5,878.27	\$5,878.28
Subtotal (With Clean Air Act)	\$82,618.09	\$82,611.73	\$82,618.05	\$82,618.05	\$82,618.06	\$82,618.09
Subtotal (Without Clean Air Act)	\$81,953.70	\$81,947.34	\$81,953.66	\$81,953.66	\$81,953.67	\$81,953.70
DC Gross Receipts Adjustment	\$3,029.33	\$3,029.10	\$3,029.33	\$3,029.33	\$3,029.33	\$3,029.33
Net Current Bill	\$85,647.43	\$85,640.83	\$85,647.38	\$85,647.38	\$85,647.39	\$85,647.43
Incremental/Penalties	n/a	\$6.60	\$0.05071	\$0.04435	\$0.03469	\$0.00000

Potomac Electric Power Company, GT (Time Metered General Service) Electric Rate Analysis
Prepared by Entech Engineering, Inc.

Incremental Cost Check

\$ Calculations on Incrementals			
Demand (\$)	2,844 kW x	\$6.60 /kW =	\$18,765.80
Off-Peak Usage (\$)	839,900 kWh	\$0.035 /kW =	\$29,138.96
Intermediate Usage (\$)	391,800 kWh	\$0.044 /kW =	\$17,378.13
On-Peak Usage (\$)	401,200 kWh	\$0.051 /kW =	\$20,343.55
Total Calculated Billing Using Incrementals			\$85,626.45
Actual Current Period Charges			\$85,647.43
Cost Variance (Actual Minus Incremental)			\$20.98
Percent Variance (Var/Actual)			0.0%

0.0
0.0
0.0



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

6439238

59

(Peeco's Taxpayer Identification No. 53-0127330)

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading
WALTER REED HOSPITAL

Reminder Notice
Summer Rates In Effect

H WALTER REED ARMY MED CTR
01 ATT: HSHLL DPW/BUDGET
ROOM C 028 BUILDING 1
WASHINGTON DC 20307-5001

Due Oct 26, 1994 1192887.23
Due After Oct 26 1207543.89

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

802511160180545557351207543891026941192887230000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251116018	01	TYPE OF BILL Actual Reading Summer Rates In Effect SERVICE PERIOD Aug 24 to Sep 26 1994 33 DAYS
SERVICE ADDRESS WALTER REED HOSPITAL		

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	3209	6125	2916000	Kilowatt Hour Meter	
R921	1000	6250	9380	3130000	Kilowatt Hour Meter	
R920	1000	704	3790	3086000	Kilowatt Hour Meter	
D 11	1000	39616	44310	4694000	Off-Pk \$.029286/KWH	137472.60
D 08	1000	19014	21174	2160000	Interm \$.042036/KWH	90799.66
D 05	1000	19929	22186	2257000	On-Pk \$.057556/KWH	129904.60
Total KWH Billed				9111000	Non-Residential-GT 3A	
*Maximum Demand				15270.0	Distribution Charge	102309.00
*On-Peak Demand				15220.0	Production & Transm	162093.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00

Discount 30943.59CR
Fuel Cost Adjustment at \$.00359990 per KWH 32798.68
DC Gross Receipts Adjustment 22895.93
NET CURRENT BILL 647329.88

Prior Bill Amount 1240221.39
Payments Through Oct 5 690726.54CR
TOTAL BALANCE FORWARD 545557.35

Conservation Rebate 3937.50CR

PLEASE PAY THE AMOUNT NOW DUE 1192887.23

After Oct 26, 1994, a Late Payment Charge of \$14656.66 will be added, increasing the amount due to \$1207543.89.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Oct 25, 1994.

**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

297225.2

Pepco's Taxpayer Identification No. 53-0127880

TYPE OF
BILL

Actual Reading

Winter Rates In Effect

SERVICE
ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
— GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Feb 19, 1992 297225.2
Late Payment Charge 2972.2
Due After Feb 19 300197.4
Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ► ACCOUNT NO.

7025111601800000000000300197470219920297225220000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ► 0251116018

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	2095	4504	2409000	Kilowatt Hour Meter	
R921	1000	384	2562	2178000	Kilowatt Hour Meter	
R920	1000	8756	1225	2469000	Kilowatt Hour Meter	
				3879710	Off-Pk \$.028329/KWH	109912.1
				1612750	Int-Pk \$.037260/KWH	60091.0
				1641393	On-Pk \$.043191/KWH	70894.7
Total KWH Billed				7133853	Non-Residential-GT 3A	
*Maximum Demand				11917.1	Distribution Charge	72098.4
*On-Peak Demand				11737.1	Production & Transm	.0
*Curtailement Demand				0.0	Curtailement Credit-CS	.0
*Curtailement Demand				0.0	Curtailement Penalty-CS	.0

Discount 15649.8
Fuel Cost Adjustment at \$.00135670- per KWH 9678.5
DC Gross Receipts Adjustment 9557.0
NET CURRENT BILL 297225.2

Prior Bill Amount 335792.0
Payments Through Jan 29 335792.0

PLEASE PAY THE AMOUNT NOW DUE 297225.2

After Feb 19, 1992, a Late Payment Charge of \$2972.25 will be added, increasing the amount due to \$300197.47.

We appreciate the prompt manner in which you pay your bill -
THANK YOU!

You may have noticed that PEPCO's bill format looks different.
See Lines Plus for an explanation on how your bill has changed

**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

12284

(Peeco's Taxpayer Identification No. 53-0127880)

TYPE OF
BILL

Actual Reading

Winter Rates In Effect

SERVICE
ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR Due Mar 19, 1992 303330.74
20 FACILITIES ENGR DIV Late Payment Charge 3033.31
--- GA AVE & BUTTERNUT ST NW Due After Mar 19 306364.05
WASHINGTON DC 20012
Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

1025111601800000000000306364050319920303330740000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

0251116018

20

TYPE OF
BILL

Actual Reading

Winter Rates In Effect

SERVICE
ADDRESS

WALTER REED HOSPITAL

SERVICE
PERIOD

Jan-27 to Feb-26-1992 30

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	4504	6606	2102000	Kilowatt Hour Meter	
R921	1000	2562	4676	2114000	Kilowatt Hour Meter	
R920	1000	1225	3888	2663000	Kilowatt Hour Meter	
				3418568	Off-Pk \$.028329/KWH	96848.03
				1720973	Int-Pk \$.037259/KWH	64123.45
				1800477	On-Pk \$.043190/KWH	77764.00
Total KWH Billed				6940018	Non-Residential-GT 3A	
*Maximum Demand				12211.6	Distribution Charge	73880.18
*On-Peak Demand				12211.6	Production & Transm	.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00
Discount						15630.78C
Fuel Cost Adjustment at \$.00049100- per KWH						3407.55C
DC Gross Receipts Adjustment						9753.41
NET CURRENT BILL						303330.74

Prior Bill Amount 297225.22
Payments Through Feb 27 297225.22C

PLEASE PAY THE AMOUNT NOW DUE 303330.74

After Mar 19, 1992, a Late Payment Charge of \$3033.31 will be added, increasing the amount due to \$306364.05.

Practicing energy conservation today means saving money and energy without sacrificing comfort and convenience. For energy-saving tips or descriptions of the wide array of Powerwatchers options available to you, call us at (202) 833-7500.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Feb 91	31	6959965	224515.0	
Feb 92	30	6940018	231333.9	3.0

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID**12262**

Peeco's Taxpayer Identification No. 53-01278801

TYPE OF
BILL

Actual Reading

Winter Rates In Effect

SERVICE
ADDRESS

WALTER REED HOSPITAL

H --- WALTER REED ARMY MED CTR Due Apr 20, 1992 294307.48
 20 FACILITIES ENGR DIV Late Payment Charge 2943.07
 --- GA AVE & BUTTERNUT ST NW Due After Apr 20 297250.55
 WASHINGTON DC 20012
 Payment may be made
 payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

7025111601800000000000297250550420920294307480000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

► 0251116018

20

SERVICE
ADDRESS

WALTER REED HOSPITAL

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	6606	8783	2177000	Kilowatt Hour Meter	
R921	1000	4676	6874	2198000	Kilowatt Hour Meter	
R920	1000	3888	6066	2178000	Kilowatt Hour Meter	
				3140660	Off-Pk \$.028330/KWH	88974.90
				1697932	Int-Pk \$.037260/KWH	63264.95
				1772554	On-Pk \$.043190/KWH	76558.28
Total KWH Billed				6611146	Non-Residential-GT 3A	
*Maximum Demand				12440.7	Distribution Charge	75266.24
*On-Peak Demand				12440.7	Production & Transm	.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00
Discount						15203.22CR
Fuel Cost Adjustment at \$.00060760- per KWH						4016.93CR
DC Gross Receipts Adjustment						9463.26
NET CURRENT BILL						294307.48

Prior Bill Amount 303330.74
 Payments Through Mar 30 303330.74CR

PLEASE PAY THE AMOUNT NOW DUE 294307.48

After Apr 20, 1992, a Late Payment Charge of \$2943.07 will be added, increasing the amount due to \$297250.55.

PEPCO wants to help you shed some light on energy efficiency through use of compact fluorescent and halogen light bulbs. See this month's issue of Lines for information. Later this month, PEPCO will begin mailing coupons to every residential customer for up to 75 percent off the purchase price of these energy-efficient bulbs. Be sure to watch for them.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Mar 91	29	6756522	232983.5	
Mar 92	29	6611146	227970.6	2.2-

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

128707

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF
BILL

Actual Reading

Winter Rates In Effect

SERVICE
ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR Due May 19, 1992 304467.41
20 FACILITIES ENGR DIV Late Payment Charge 3044.67
--- GA AVE & BUTTERNUT ST NW Due After May 19 307512.08
WASHINGTON DC 20012
Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

3025111601800000000000307512080519920304467410000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT

► 0251116018

20

Actual Reading

Winter Rates In Effect

SERVICE
ADDRESS

WALTER REED HOSPITAL

May 26 to Apr 28, 1992

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	8783	1061	2278000	Kilowatt Hour Meter	
R921	1000	6874	9174	2300000	Kilowatt Hour Meter	
R920	1000	6066	8343	2277000	Kilowatt Hour Meter	
				3276504	Off-Pk \$.028330/KWH	92823.36
				1783725	Interm \$.037259/KWH	66461.59
				1853622	On-Pk \$.043190/KWH	80058.80
				6913851	Non-Residential-GT 3A	
				*Maximum Demand	13451.2 Distribution Charge	81379.76
				*On-Peak Demand	13451.2 Production & Transm	.00
				*Curtailement Demand	0.0 Curtailement Credit-CS	.00
				*Curtailement Demand	0.0 Curtailement Penalty-CS	.00

Discount 16036.18C
Fuel Cost Adjustment at \$.00144780- per KWH 10009.87C
DC Gross Receipts Adjustment 9789.95
NET CURRENT BILL 304467.41

Prior Bill Amount 294307.48
Payments Through Apr 28 294307.48C

PLEASE PAY THE AMOUNT NOW DUE 304467.41

After May 19, 1992, a Late Payment Charge of \$3044.67 will be added, increasing the amount due to \$307512.08.

PEPCO's Kilowatchers Club is a great way to save money and conserve energy. If you're not a member, see this month's issue of Lines for details on how to take advantage of this Powerwatchers opportunity, or call (202) 833-7500 for information. Current members need not reapply.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Apr 91	30	7018928	233964.3	
Apr 92	29	6913851	238408.7	1.9

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

12113

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF BILL Actual Reading

Winter Rates In Effect

SERVICE ADDRESS WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Jun 18, 1992 356452.27
Late Payment Charge 3564.52
Due After Jun 18 360016.79
Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

502511160180000000000360016790618920356452270000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

► 0251116018

20

TYPE OF BILL

Actual Reading

SERVICE PERIOD

Winter Rates In Effect

Apr 24 to May 26 1992 32

SERVICE ADDRESS WALTER REED HOSPITAL

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	1061	3703	2642000	Kilowatt Hour Meter	
R921	1000	9174	1817	2643000	Kilowatt Hour Meter	
R920	1000	8343	953	2610000	Kilowatt Hour Meter	
				4131590	Off-Pk \$.028329/KWH	117047.94
				1850631	Interm \$.037259/KWH	68954.51
				1980713	On-Pk \$.043189/KWH	85546.59
Total KWH Billed				7962934	Non-Residential-GT 3A	
*Maximum Demand				14318.5	Distribution Charge	86626.93
*On-Peak Demand				14318.5	Production & Transm	.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00

Discount 17908.80

Fuel Cost Adjustment at \$.00059320 per KWH 4723.61

DC Gross Receipts Adjustment 11461.49

NET CURRENT BILL 356452.27

Prior Bill Amount 304467.41

Payments Through May 28 304467.41

PLEASE PAY THE AMOUNT NOW DUE 356452.27

After Jun 18, 1992, a Late Payment Charge of \$3564.52 will be added, increasing the amount due to \$360016.79.

Please note that summer billing rates will be applied to your next bill, and will be in effect through your October bill. So the electricity you use after the service period shown above will be priced on summer rates. Rates are higher in the summer because it costs more to meet the higher demand for electricity created by heavy air conditioner use. The situation is just the opposite in the winter billing months (November-May) when demand for electricity diminishes, and rates are lower.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

* IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

12084

Pepco's Taxpayer Identification No. 53-0127880

TYPE OF BILL: Actual Reading Summer Rates In Effect
SERVICE ADDRESS: WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR Due Jul 20, 1992 506532.26
20 FACILITIES ENGR DIV Late Payment Charge 5065.32
--- GA AVE & BUTTERNUT ST NW Due After Jul 20 511597.58
WASHINGTON DC 20012
Payment may be made payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

00251116018000000000000511597580720920506532260000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

► 0251116018	20	TYPE OF BILL: Actual Reading Summer Rates In Effect SERVICE PERIOD: May 26 to June 29, 1992
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METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	3703	6234	2531000	Kilowatt Hour Meter	
R921	1000	1817	4410	2593000	Kilowatt Hour Meter	
R920	1000	953	3495	2542000	Kilowatt Hour Meter	
				3713292	Off-Pk \$.026379/KWH	97956.64
				1950403	Interm \$.038019/KWH	74154.32
				2061874	On-Pk \$.052199/KWH	107628.60
Total KWH Billed				7725569	Non-Residential-GT 3A	
*Maximum Demand				15177.6	Distribution Charge	91824.48
*On-Peak Demand				15177.6	Production & Transm	147222.72
*Curtailement Demand				1177.6	Curtailement Credit-CS	9767.840
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00

Discount 25939.350
Fuel Cost Adjustment at \$.00092750 per KWH 7165.47
DC Gross Receipts Adjustment 16287.22
NET CURRENT BILL 506532.26

Prior Bill Amount 356452.27
Payments Through Jun 26 356452.270

PLEASE PAY THE AMOUNT NOW DUE 506532.26

After Jul 20, 1992, a Late Payment Charge of \$5065.32 will be added, increasing the amount due to \$511597.58.

Thank you for the prompt manner in which you pay your bill.

See the June issue of LINES to learn if you qualify for Pepco's Time-Of-Use rates, or call TOU Services at (202) 331-6248 *** To schedule a free presentation on energy-related topics for your organization, call Pepco's Speakers Bureau at (202) 872-2336.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Jun 91	32	9289826	290307.1	
Jun 92	29	7725569	266398.7	8.2-

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

* IF APPLICABLE



12349

TYPE OF
BILLSERVICE
ADDRESS

Actual Reading

WALTER REED HOSPITAL

Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Pepco's Taxpayer Identification No. 53-01278801

AMOUNT PAID

H WALTER REED ARMY MED CTR
20--- FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Aug 18, 1992 598269.47
Due After Aug 18 604252.16

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

7025111601800000000000604252160818920598269470000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ► 0251116018

20

SERVICE
ADDRESS

WALTER REED HOSPITAL

TYPE OF
BILL

Actual Reading

Summer Rates In Effect

SERVICE
PERIOD

Jun 24 to Jul 24, 1992 30

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	6234 9230	2996000	Kilowatt Hour Meter	
R921	1000	4410 7624	3214000	Kilowatt Hour Meter	
R920	1000	3495 6408	2913000	Kilowatt Hour Meter	
			4486947	Off-Pk \$.027422/KWH	123044.05
			2272436	Interm \$.039521/KWH	89810.45
			2410799	On-Pk \$.054255/KWH	130798.80
Total KWH Billed			9170182	Non-Residential-GT 3A	
*Maximum Demand			16642.2	Distribution Charge	104929.07
*On-Peak Demand			16642.2	Production & Transm	168030.74
*Curtailement Demand			2642.2	Curtailement Credit-CS	21916.26
*Curtailement Demand			0.0	Curtailement Penalty-CS	.00

Discount 30830.64
Avg. Fuel Cost Adjustment at \$.00165390 per KWH 15166.31
DC Gross Receipts Adjustment 19236.95
NET CURRENT BILL 598269.47

Prior Bill Amount 506532.26
Payments Through Jul 28 506532.26

PLEASE PAY THE AMOUNT NOW DUE 598269.47

After Aug 18, 1992, a Late Payment Charge of \$5982.69 will be added, increasing the amount due to \$604252.16.

In the market for a new home? Look for a Pepco Energy Saver Home..."Energy Efficiency With All the Comforts of Home.(sm)" See details in LINES.



Polomac Electric Power Company

ACCOUNT DATA

12276

Actual Reading

Summer Rates In Effect

SERVICE ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Sep 16, 1992 610857.59
Due After Sep 16 616966.17

Payment may be made
payable to pepco

9025111601800000000000616966170916920610857590000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

➤ 0251116018 20

SERVICE ADDRESS

WALTER REED HOSPITAL

TYPE OF BILL

Actual Reading
Summer Rates In Effect

SERVICE PERIOD

Jul 24 to Aug 24 1992 31 DAYS

READING STATEMENT	AMOUNT DUE	METER READING	PREVIOUS	PRESENT	KWH USED KW DEMAND	DESCRIPTION	AMOUNT
R919	1000	9230	2230	3000000		Kilowatt Hour Meter	
R921	1000	7624	832	3208000		Kilowatt Hour Meter	
R920	1000	6408	9323	2915000		Kilowatt Hour Meter	
				4680789		Off-Pk \$.028220/KWH	132091.87
				2191193		Interm \$.040670/KWH	89115.82
				2326300		On-Pk \$.055828/KWH	129874.87
Total KWH Billed					9198282	Non-Residential-GT 3A	
*Maximum Demand					16486.7	Distribution Charge	107163.55
*On-Peak Demand					16486.7	Production & Transm	171461.68
*Curtailment Demand					2486.7	Curtailment Credit-CS	20626.43CR
*Curtailment Demand					0.0	Curtailment Penalty-CS	.00
Discount							31485.39CR
Fuel Cost Adjustment at \$.00148070 per KWH							13619.89
DC Gross Receipts Adjustment							19641.73
NET CURRENT BILL							610857.59

Prior Bill Amount 598269.47
Payments Through Aug 26 598269.47CR

PLEASE PAY THE AMOUNT NOW DUE 610857.59

After Sep 16, 1992, a Late Payment Charge of \$6108.58 will be added, increasing the amount due to \$616966.17.

Are you thinking about buying a new air conditioner or heat pump? Pepco offers rebates on qualifying high efficiency units. For more details, call Pepco's Residential Energy Services at (202)872-2465.



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

1992

Pepco's Taxpayer Identification No. 53-0127880

TYPE OF
BILL

Actual Reading

Summer Rates In Effect

SERVICE
ADDRESS

WALTER REED HOSPITAL

H
20

WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Oct 19, 1992 607174.88
Due After Oct 19 613246.63

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

9025111601800000000000613246631019920607174880000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

► 0251116018	20	Actual Reading
WALTER REED HOSPITAL		Summer Rates In Effect
		Aug 24 to Sep 23, 1992

METER NO. LAST DIGITS	MULTI- PLIER	METER READING		KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
		PREVIOUS	PRESENT			
R919	1000	2230	5127	2897000	Kilowatt Hour Meter	
R921	1000	832	3924	3092000	Kilowatt Hour Meter	
R920	1000	9323	2136	2813000	Kilowatt Hour Meter	
				4265178	Off-Pk \$.028219/KWH	120363.32
				2239759	Interm \$.040670/KWH	91091.00
				2373338	On-Pk \$.055828/KWH	132500.53
Total KWH Billed				8878275	Non-Residential-GT 3A	
*Maximum Demand				16372.2	Distribution Charge	106419.30
*On-Peak Demand				16372.2	Production & Transm	170270.88
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00

Discount 31032.25C
Fuel Cost Adjustment at \$.00022090- per KWH 1961.21C
DC Gross Receipts Adjustment 19523.31
NET CURRENT BILL 607174.88

Prior Bill Amount 610857.59
Payments Through Sep 25 610857.59C

PLEASE PAY THE AMOUNT NOW DUE 607174.88

After Oct 19, 1992, a Late Payment Charge of \$6071.75 will be added, increasing the amount due to \$613246.63.

Don't forget, summer rates are in effect June through October. Please use energy wisely.

Residential and commercial customers can save money, save energy with Pepco's Powerwatchers programs. Call 202/833-7500 for information.

ADMIN OFFICE, DEH

30 SEP 1992

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

pepco*FERMID***Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

(Pepco's Taxpayer Identification No. 53-0127880)

TYPE OF
BILL
SERVICE
ADDRESS**Actual Reading****Summer Rates In Effect****WALTER REED HOSPITAL**

H --- WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Nov 16, 1992 464702.99
Due After Nov 16 469350.02

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

1025111601800000000000469350021116920464702990000

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ▶

0041160183 20

METER NO LA DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	5127 7418	2291000	Kilowatt Hour Meter	
R921	1000	3924 6352	2428000	Kilowatt Hour Meter	
R920	1000	2136 4361	2225000	Kilowatt Hour Meter	
			3524776	Off-Pk \$.028220/KWH	99469.18
			1695924	Interm \$.040670/KWH	68973.23
			1785615	On-Pk \$.055831/KWH	99693.83
			7006315	Non-Residential-GT 3A	
			13271.2	Distribution Charge	86262.80
			13271.2	Production & Transm	138020.48
			0.0	Curtailement Credit-CS	.00
			0.0	Curtailement Penalty-CS	.00
Total KWH Billed					
*Maximum Demand					
*On-Peak Demand					
*Curtailement Demand					
*Curtailement Demand					

Discount 24620.98C
Avg. Fuel Cost Adjustment at \$.00257450- per KWH 18037.77C
DC Gross Receipts Adjustment 14942.22
NET CURRENT BILL 464702.99

Prior Bill Amount 607174.88
Payments Through Oct 26 607174.88C

PLEASE PAY THE AMOUNT NOW DUE 464702.99

After Nov 16, 1992, a Late Payment Charge of \$4647.03 will be
added, increasing the amount due to \$469350.02.

Pepco's new Custom Rebate Program offers commercial
customers cash rebates for improvements in energy efficiency to
any existing electrical equipment. If you're replacing worn
equipment, remodeling or looking to lower overhead, call Pepco
at 202/872-4630 for additional information about this
comprehensive program.

ADMIN OFFICE, DEH

29 OCT 1992



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

12202

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF BILL: Actual Reading
SERVICE ADDRESS: WALTER REED HOSPITAL

Winter Rates In Effect ¹⁹⁹²
DEC 15

H 20 WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Dec 15, 1992 308267.88
Due After Dec 15 311350.56

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

7025111601800000000000311350561215920308267880000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018 20
SERVICE ADDRESS: WALTER REED HOSPITAL

TYPE OF BILL: Actual Reading
Winter Rates In Effect
SERVICE PERIOD: Oct 22 to Nov 20, 1992 29

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	7418	9690	2272000	Kilowatt Hour Meter	
R921	1000	6352	8690	2338000	Kilowatt Hour Meter	
R920	1000	4361	6613	2252000	Kilowatt Hour Meter	
				3441647	Off-Pk \$.030320/KWH	104350.74
				1700626	Interm \$.039900/KWH	67854.98
				1780311	On-Pk \$.046201/KWH	82253.37
Total KWH Billed				6922584	Non-Residential-GT 3A	
*Maximum Demand				12571.6	Distribution Charge	81715.40
*On-Peak Demand				12571.6	Production & Transm	.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00

Discount 16808.730
Fuel Cost Adjustment at \$.00303500- per KWH 21010.040
DC Gross Receipts Adjustment 9912.16
NET CURRENT BILL 308267.88

Prior Bill Amount 464702.99
Payments Through Nov 24 464702.990

PLEASE PAY THE AMOUNT NOW DUE 308267.88

After Dec 15, 1992, a Late Payment Charge of \$3082.68 will be added, increasing the amount due to \$311350.56.

Pepco has filed its Productivity Improvement Plan for 1992 with the D.C. Public Service Commission. The plan sets forth cost-effective productivity improvement goals for Pepco. For more information or to obtain a copy, call 202/833-7500, or visit the Pepco Customer Service Center at 1900 Pennsylvania Ave., N.W. Hours are 8:30 a.m. to 5:15 p.m.

**Potomac Electric Power Company**P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

(Pepco's Taxpayer Identification No. 53-0127880)

TYPE OF BILL: Actual Reading
SERVICE ADDRESS: WALTER REED HOSPITAL

Winter Rates In Effect

JAN 4 1993

ADMIN OFFICE DEL

H 20 WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012Due Jan 19, 1993 319814.57
Due After Jan 19 323012.72Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

1025111601800000000000323012720119930319814570000

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ▶

0251116018

20

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	9690	2102	2412000	Kilowatt Hour Meter	
R921	1000	8690	1338	2648000	Kilowatt Hour Meter	
R920	1000	6613	9107	2494000	Kilowatt Hour Meter	
				3945481	Off-Pk \$.030319/KWH	119626.98
				1804593	Interm \$.039899/KWH	72003.26
				1873365	On-Pk \$.046201/KWH	86551.53
Total KWH Billed				7623439	Non-Residential-GT 3A	
*Maximum Demand				13156.7	Distribution Charge	85518.55
*On-Peak Demand				12506.2	Production & Transm	.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00

Discount 18185.02C
 Fuel Cost Adjustment at \$.00472020- per KWH 35984.16C
 DC Gross Receipts Adjustment 10283.43
NET CURRENT BILL 319814.57

Prior Bill Amount 308267.88
 Payments Through Dec 29 308267.88C

PLEASE PAY THE AMOUNT NOW DUE 319814.57

After Jan 19, 1993, a Late Payment Charge of \$3198.15 will be added, increasing the amount due to \$323012.72.

The D.C. Energy Office offers the Low-Income Home Energy Assistance Program (LIHEAP) and the Complementary Energy Assistance Program (CEAP) to help qualified customers with their electric bills. Call the D.C. Energy Office at (202) 724-2100. **** Pepco has filed its 1992 Productivity Improvement Plan with the D.C. Public Service Commission. For more information or to obtain a copy, call 202/833-7500, or visit our Customer Service Center at 1900 Pennsylvania Avenue, N.W.

pepco

Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 633-7600

AMOUNT PAID

12336

Peeco's Taxpayer Identification No. 63-0127680

TYPE OF BILL Actual Reading

Winter Rates In Effect

SERVICE ADDRESS WALTER REED HOSPITAL

H
20

WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Feb 18, 1993 327601.57
Due After Feb 18 330877.59

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

8025111601800000000000330877590218930327601570000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

20

TYPE OF BILL

Actual Reading

SERVICE ADDRESS

WALTER REED HOSPITAL

SERVICE PERIOD

Winter Rates In Effect

Dec 23 to Jan 28 1993 31 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	2102	4524	2422000	Kilowatt Hour Meter	
R921	1000	1338	4038	2700000	Kilowatt Hour Meter	
R920	1000	9107	1642	2535000	Kilowatt Hour Meter	
				4222323	Off-Pk \$.030319/KWH	128020.83
				1719012	Interm \$.039900/KWH	68588.58
				1790626	On-Pk \$.046201/KWH	82729.81
				7731961	Non-Residential-GT 3A	
				12285.3	Distribution Charge	79854.45
				12084.8	Production & Transm	.00
				0.0	Curtailement Credit-CS	.00
				0.0	Curtailement Penalty-CS	.00

Total KWH Billed
*Maximum Demand
*On-Peak Demand
*Curtailement Demand
*Curtailement Demand

Fuel Cost Adjustment at \$.00312550- per KWH 17959.68CR
DC Gross Receipts Adjustment 24166.24CR
NET CURRENT BILL 10533.82
327601.57

Prior Bill Amount 319814.57
Payments Through Jan 28 319814.57CR

PLEASE PAY THE AMOUNT NOW DUE 327601.57

After Feb 18, 1993, a Late Payment Charge of \$3276.02 will be added, increasing the amount due to \$330877.59.

Thank you for being a prompt paying customer.

Winter rates are in effect now through the billing month of May. Even though winter rates are lower than those in summer, always remember to use energy wisely.



Potomac Electric Power Company

AMOUNT PAID

P.O. Box 2812, Washington, DC 20067-2812
Telephone (202) 833-7500

12428

Actual Reading

Winter Rates In Effect

WALTER REED HOSPITAL

MAR 2 - 1993

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Mar 19, 1993 298646.31
Due After Mar 19 301632.77

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO ON YOUR REMITTANCE

6025111601800000000000301632770319930298646310000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ▶ 0251116018	20	TYPE OF BILL: Actual Reading
SERVICE ADDRESS: WALTER REED HOSPITAL	SERVICE PERIOD: Jan 26 to Feb 24 1993	29

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	4524	6609	2085000	Kilowatt Hour Meter	
R921	1000	4038	6381	2343000	Kilowatt Hour Meter	
R920	1000	1642	3814	2172000	Kilowatt Hour Meter	
				3318478	Off-Pk \$.030319/KWH	100616.25
				1633620	Interm \$.039900/KWH	65181.44
				1709046	On-Pk \$.046202/KWH	78961.63
Total KWH Billed			6661144	Non-Residential-GT 3A		
*Maximum Demand			12158.4	Distribution Charge		79029.60
*On-Peak Demand			12158.4	Production & Transm		.00
*Curtailment Demand			0.0	Curtailment Credit-CS		.00
*Curtailment Demand			0.0	Curtailment Penalty-CS		.00
Discount						16189.44C1
Fuel Cost Adjustment at \$.00278570- per KWH						18555.95C1
DC Gross Receipts Adjustment						9602.78
NET CURRENT BILL						298646.31

Prior Bill Amount 327601.57
Payments Through Feb 26 327601.57C1

PLEASE PAY THE AMOUNT NOW DUE 298646.31

After Mar 19, 1993, a Late Payment Charge of \$2986.46 will be added, increasing the amount due to \$301632.77.

Are you finding it difficult to pay your electric bill? See the February issue of Lines for Pepco programs which can make paying your electric bill easier and more convenient. Or call us at (202) 833-7500 anytime and speak to one of our customer service representatives. They also can refer you to energy assistance programs in your area that provide financial assistance for qualified customers. And while you're talking with us, ask about Pepco's money-saving Powerwatchers options.



Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812
Telephone (202) 333-7500

AMOUNT PAID

12289

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS

WALTER REED HOSPITAL

ADMIN OFFICE, DEH

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

APR 2 1993
Due Apr 20, 1993 312629.73
Due After Apr 20 315756.03

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

10251116018000000000000315756030420930312629730000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251116018	20	Actual Reading
WALTER REED HOSPITAL		Feb 24 to Mar 28, 1993

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	6609	8970	2361000	Kilowatt Hour Meter	
R921	1000	6381	8960	2579000	Kilowatt Hour Meter	
R920	1000	3814	5923	2109000	Kilowatt Hour Meter	
				3337204	Off-Pk \$.030320/KWH	101184.03
				1819938	Interm \$.039900/KWH	72615.53
				1854464	On-Pk \$.046201/KWH	85678.49
Total KWH Billed				7011606	Non-Residential-GT 3A	
*Maximum Demand				12158.4	Distribution Charge	79029.60
*On-Peak Demand				12158.4	Production & Transm	.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00
Discount						16925.38CF
Fuel Cost Adjustment at \$.00271050- per KWH						19004.95CF
DC Gross Receipts Adjustment						10052.41
NET CURRENT BILL						312629.73
Prior Bill Amount						298646.31
Payments Through Mar 30						298646.31CR

PLEASE PAY THE AMOUNT NOW DUE 312629.73

After Apr 20, 1993, a Late Payment Charge of \$3126.30 will be added, increasing the amount due to \$315756.03.

Take a look at this month's issue of Lines and meet some of your neighbors who are Powerwatching with Pepco. Learn how you can save big money and energy without sacrificing comfort and convenience.

The scheduled meter read date for your next bill is Apr 22, 1993.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Mar 92	29	6611146	227970.6	
Mar 93	30	7011606	233720.2	2.5

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 333-7500



Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

12227

1000 (Reverse side) Washington No. 63-127380

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS
WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due May 19, 1993 335699.23
Due After May 19 339056.22

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO ON YOUR REMITTANCE ▶

802511160180000000000339056220519930335699230000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO ▶ 0251116018

20

SERVICE ADDRESS
WALTER REED HOSPITAL

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND	DESCRIPTION	AMOUNT
R919	1000	8970 1418	2448000	Kilowatt Hour Meter	
R921	1000	8960 1571	2611000	Kilowatt Hour Meter	
R920	1000	5923 8255	2332000	Kilowatt Hour Meter	
			3777345	Off-Pk \$.030319/KWH	114529.10
			1795853	Interm \$.039899/KWH	71654.53
			1889171	On-Pk \$.046201/KWH	87281.61
Total KWH Billed			7462369	Non-Residential-GT 3A	
*Maximum Demand			12988.9	Distribution Charge	84427.85
*On-Peak Demand			12988.9	Production & Transm	.00
*Curtailment Demand			0.0	Curtailment Credit-CS	.00
*Curtailment Demand			0.0	Curtailment Penalty-CS	.00

Discount 17894.66CF
Fuel Cost Adjustment at \$.00202260- per KWH 15093.39CF
DC Gross Receipts Adjustment 10794.19
NET CURRENT BILL 335699.23

Prior Bill Amount 312629.73
Payments Through Apr 28 312629.73CF

PLEASE PAY THE AMOUNT NOW DUE 335699.23

After May 19, 1993, a Late Payment Charge of \$3356.99 will be added, increasing the amount due to \$339056.22.

Before replacing your hot water heater, call Pepco at (202) 833-7500 for information on high-efficiency electric water heaters.

The scheduled meter read date for your next bill is May 21, 1993.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Apr 92	29	6913851	238408.7	
Apr 93	31	7462369	240721.6	1.0

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



12395

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF BILL
SERVICE ADDRESS
Actual Reading
WALTER REED HOSPITAL

Winter Rates In Effect

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Jun 17, 1993 354248.44
Due After Jun 17 357790.92

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

5025111601800000000000357790920617930354248440000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

20

Actual Reading

Winter Rates In

SERVICE ADDRESS

WALTER REED HOSPITAL

Apr 26 to May 25

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	1418	3788	2370000	Kilowatt Hour Meter	
R921	1000	1571	4131	2560000	Kilowatt Hour Meter	
R920	1000	8255	719	2464000	Kilowatt Hour Meter	
				3558914	Off-Pk \$.030319/KWH	107906.27
				1899539	Interm \$.039900/KWH	75791.61
				2003588	On-Pk \$.046200/KWH	92566.53
				7462041	Non-Residential-GT 3A	
				14576.2	Distribution Charge	94745.30
				14576.2	Production & Transm	.00
				0.0	Curtailement Credit-CS	.00
				0.0	Curtailement Penalty-CS	.00
					Total KWH Billed	
					*Maximum Demand	
					*On-Peak Demand	
					*Curtailement Demand	
					*Curtailement Demand	
					Discount	18550.49CR
					Fuel Cost Adjustment at \$.00128670- per KWH	9601.41CR
					DC Gross Receipts Adjustment	11390.63
					NET CURRENT BILL	354248.44

Prior Bill Amount 335699.23
Payments Through May 27 335699.23CR

PLEASE PAY THE AMOUNT NOW DUE 354248.44

After JUN 17, 1993, a Late Payment Charge of \$3542.48 will be added, increasing the amount due to \$357790.92.

Please note that summer billing rates will be applied to your next bill, and will be in effect for June-Oct. bills. Rates are higher in the summer because it costs more to meet the higher demand for electricity created by heavy air conditioner use. The situation is just the opposite in the winter billing months (Nov.-May) when demand for electricity diminishes and rates are lower. Call Pepco at 202-833-7500 for ways to save energy and save money on your utility bill.

pepco

Potomac Electric Power Company

AMOUNT PAID

P.O. Box 2812, Washington, DC 20067-2812
Telephone (202) 833-7500

12300

Actual Reading

Summer Rates In Effect

SERVICE
ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012Due Jul 19, 1993 573720.82
Due After Jul 19 579475.74Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

502511160180003542480579475740719930573720820000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

SERVICE
ADDRESS

WALTER REED HOSPITAL

TYPE OF
BILL

Actual Reading

SERVICE
PERIOD

Summer Rates In Effect

May 25 to Jun 24 1993 30 days

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	3788	6521	2733000	Kilowatt Hour Meter	
R921	1000	4131	7042	2911000	Kilowatt Hour Meter	
R920	1000	719	3565	2846000	Kilowatt Hour Meter	
				4211725	Off-Pk \$.028220/KWH	118854.88
				2121670	Interm \$.040670/KWH	86288.32
				2231843	On-Pk \$.055829/KWH	124602.28
				8565238	Non-Residential-GT 3A	
				16139.0	Distribution Charge	104903.50
				16139.0	Production & Transm	167845.60
				2139.0	Curtailment Credit-CS	17742.36CR
				0.0	Curtailment Penalty-CS	.00
Total KWH Billed						
*Maximum Demand						
*On-Peak Demand						
*Curtailment Demand						
*Curtailment Demand						
Discount						30124.73CR
Fuel Cost Adjustment at \$.00032490- per KWH						2782.85CR
DC Gross Receipts Adjustment						18333.70
NET CURRENT BILL						570178.34
Prior Bill Amount						354248.44
Payments Through Jun 28						354248.44CR
Late Payment Charge						3542.48
TOTAL BALANCE FORWARD						3542.48

PLEASE PAY THE AMOUNT NOW DUE 573720.82

After Jul 19, 1993, a Late Payment Charge of \$5754.92 will be added, increasing the amount due to \$579475.74.

If you have electric central air conditioning, you could have saved at least \$7 on this month's electric bill by belonging to Pepco's Kilowatchers Club. Our members are earning monthly credits on their summer bills and making a world of difference by conserving energy. See this month's issue of LINES for details. If you are already a member of the Kilowatchers Club, you do not need to reapply.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

Potomac Electric Power Company

*IF APPLICABLE

Page 1 of 2

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

12186

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF BILL Actual Reading

Summer Rates In Effect

SERVICE ADDRESS WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
20--- FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Aug 18, 1993 640314.23
Due After Aug 18 646717.37

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

4025111601800000000000646717370818930640314230000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

TYPE OF BILL Actual Reading
Summer Rates In Effect

SERVICE ADDRESS WALTER REED HOSPITAL

SERVICE PERIOD Jun 24 to Jul 26, 1993 32 days

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	6521 9845	3324000	Kilowatt Hour Meter	
R921	1000	7042 579	3537000	Kilowatt Hour Meter	
R920	1000	3565 6923	3358000	Kilowatt Hour Meter	
			5464387	Off-Pk \$.028219/KWH	154205.00
			2375138	Interm \$.040669/KWH	96596.86
			2465009	On-Pk \$.055828/KWH	137617.60
Total KWH Billed		10304534	Non-Residential-GT 3A		
*Maximum Demand		17108.6	Distribution Charge		111205.90
*On-Peak Demand		17108.6	Production & Transm		177929.44
*Curtailement Demand		3108.6	Curtailement Credit-CS		25784.90CR
*Curtailement Demand		0.0	Curtailement Penalty-CS		.00
Discount					33877.74CR
Fuel Cost Adjustment at \$.00017790 per KWH					1833.18
DC Gross Receipts Adjustment					20588.89
NET CURRENT BILL					640314.23

Prior Bill Amount 573720.82
Payments Through Jul 28 573720.82CR

PLEASE PAY THE AMOUNT NOW DUE 640314.23

After Aug 18, 1993, a Late Payment Charge of \$6403.14 will be added, increasing the amount due to \$646717.37.

Thank you for being a prompt paying customer.

Remember, summer billing rates are in effect through October-- use energy wisely. To save energy and money on your electric bill, call Pepco Powerwatchers at (202) 833-7500.

pepco**Potomac Electric Power Company**P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

12370

Pepco's Taxpayer Identification No. 53-0127880

TYPE OF

Actual Reading

Summer Rates In Effect

BILL

SERVICE
ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012Due Sep 16, 1993 606413.09
Due After Sep 16 612477.22Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

5025111601800000000000612477220916930606413090000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

TYPE OF
BILL

Actual Reading

SERVICE
PERIOD

Summer Rates In Effect

Jul 26 to Aug 29, 1993 29 DAYS

SERVICE
ADDRESS

WALTER REED HOSPITAL

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	9845	2759	2914000	Kilowatt Hour Meter	
R921	1000	579	3719	3140000	Kilowatt Hour Meter	
R920	1000	6923	9852	2929000	Kilowatt Hour Meter	
				4341565	Off-Pk \$.028219/KWH	122518.96
				2313370	Interm \$.040670/KWH	94084.76
				2407001	On-Pk \$.055828/KWH	134379.60
Total KWH Billed				9061936	Non-Residential-GT 3A	
*Maximum Demand				16290.4	Distribution Charge	105887.60
*On-Peak Demand				16290.4	Production & Transm	169420.16
*Curtailement Demand				2290.4	Curtailement Credit-CS	18998.18CR
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00
Discount						31314.56CR
Fuel Cost Adjustment at \$.00120680 per KWH						10935.94
DC Gross Receipts Adjustment						19498.81
NET CURRENT BILL						606413.09

Prior Bill Amount 640314.23
Payments Through Aug 26 640314.23CR

PLEASE PAY THE AMOUNT NOW DUE 606413.09

After Sep 16, 1993, a Late Payment Charge of \$6064.13 will be added, increasing the amount due to \$612477.22.

Pepco has a number of Powerwatchers options to help residential and commercial customers save energy and money. For information on how you can become a Pepco Powerwatcher, call (202) 833-7500.



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

547

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF

Edited Reading

Summer Rates In Effect

BILL

SERVICE

ADDRESS

WALTER REED HOSPITAL

H
20

WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Oct 29, 1993 627670.02
Due After Oct 29 633946.72

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

002511160180000000000633946721029930627670020000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251116018

20

TYPE OF
BILL

Edited Reading

Summer Rates In Effect

SERVICE
PERIOD

Aug 24 to Sep 23 1993 30 DAYS

SERVICE
ADDRESS

WALTER REED HOSPITAL

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	2759	5736	2977000	Kilowatt Hour Meter	
R921	1000	3719	6883	3164000	Kilowatt Hour Meter	
R920	1000	9852	2777	2925000	Kilowatt Hour Meter	
				4608000	Off-Pk \$.028220/KWH	130037.76
				2206027	Interm \$.040670/KWH	89719.12
				2251999	On-Pk \$.055829/KWH	125727.38
Total KWH Billed				9066026	Non-Residential-GT 3A	
*Maximum Demand				16359.9	Distribution Charge	106339.35
*On-Peak Demand				16327.2	Production & Transm	169802.88
*Curtailement Demand				2327.2	Curtailement Credit-CS	19303.43CR
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00
Discount						31081.33CF
Avg. Fuel Cost Adjustment at \$.00399800 per KWH						36245.97
DC Gross Receipts Adjustment						20182.32
NET CURRENT BILL						627670.02

Prior Bill Amount 606413.09
Payments Through Oct 7 606413.09CF

PLEASE PAY THE AMOUNT NOW DUE 627670.02

After Oct 29, 1993, a Late Payment Charge of \$6276.70 will be added, increasing the amount due to \$633946.72.

Good News! Your new Save & Save Again coupons, worth more than \$240 in savings on energy-efficient lighting and other conservation products, will be mailed in October. And, The Washington Post will contain a special circular on Sunday, October 24, featuring store locations where you can purchase the coupon products. So watch your mail and the Post this month, and save and save and save! Questions? Call (202) 457-SAVE.

pepco**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

484234.76

733

Peccos Taxpayer Identification No. 53-0127880

TYPE OF
BILL
SERVICE
ADDRESS

Edited Reading

Summer Rates In Effect

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012Due Nov 16, 1993 1111954.78
Due After Nov 16 1126212.68Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

902511160180627670021126212681116931111954780000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT

0251116018

TYPE OF
BILL

Edited Reading

Summer Rates In Effect

SERVICE
PERIOD

Sep 23 to Oct 22, 1993 27

SERVICE
ADDRESS

WALTER REED HOSPITAL

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	5736	8063	2327000	Kilowatt Hour Meter	
R921	1000	6883	9265	2382000	Kilowatt Hour Meter	
R920	1000	2777	5037	2260000	Kilowatt Hour Meter	
				3638782	Off-Pk \$.028220/KWH	102686.43
				1682325	Interm \$.040670/KWH	68420.16
				1647867	On-Pk \$.055832/KWH	92004.74
				6968974	Non-Residential-GT 3A	
				12260.7	Distribution Charge	79694.55
				12236.2	Production & Transm	127256.48
				0.0	Curtailment Credit-CS	.00
				0.0	Curtailment Penalty-CS	.00

Total KWH Billed

*Maximum Demand

*On-Peak Demand

*Curtailment Demand

*Curtailment Demand

Discount 23503.1201

Fuel Cost Adjustment at \$.00317890 per KWH 22153.66

DC Gross Receipts Adjustment 15571.86

NET CURRENT BILL 484234.76

Prior Bill Amount 627670.02

TOTAL BALANCE FORWARD 627670.02

PLEASE PAY THE AMOUNT NOW DUE 1111954.78

After Nov 16, 1993, a Late Payment Charge of \$14257.90 will be added, increasing the amount due to \$1126212.68.

Good News! Your new Save & Save Again coupons, worth more than \$240 in savings on energy-efficient lighting and other conservation products, will be mailed in October. And, The Washington Post will contain a special circular on Sunday, October 24, featuring store locations where you can purchase the coupon products. So watch your mail and the Post this month, and save and save and save! Questions? Call (202) 457-SAVE.



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

65

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF

Actual Reading

Winter Rates In Effect

BILL

SERVICE

ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Jan 3, 1994 466779.93
Due After Jan 3 471471.94

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO

602511160180004842850471471940103940466779930000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

01

SERVICE
ADDRESS

WALTER REED HOSPITAL

TYPE OF
BILL

Actual Reading

Winter Rates In Effect

SERVICE
PERIOD

Oct 22 to Nov 29, 1993 38

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	8063	962	2899000	Kilowatt Hour Meter	
R921	1000	9265	2369	3104000	Kilowatt Hour Meter	
R920	1000	5037	5037	0	Meter Exchange	
R920	1000	5037	7846	2809000	Kilowatt Hour Meter	
F-PK	1	38782	0	0	Meter Exchange	
D 11	1000	0	4807	4807000	Off-Pk \$.030320/KWH	145748.24
TERM	1	82325	0	0	Meter Exchange	
D 08	1000	0	1994	1994000	Interm \$.039900/KWH	79560.60
N-PK	1	47867	0	0	Meter Exchange	
D 05	1000	0	2100	2100000	On-Pk \$.046199/KWH	97019.80
Total KWH Billed				8901000	Non-Residential-GT 3A	
*Maximum Demand				256.5	Distribution Charge	166725.00
*On-Peak Demand				256.5	Production & Transm	.00
*Curtailment Demand				0.0	Curtailment Credit-CS	.00
*Curtailment Demand				0.0	Curtailment Penalty-CS	.00

Discount 24452.68CF

Fuel Cost Adjustment at \$.00196800- per KWH 17517.17CF

DC Gross Receipts Adjustment 14853.29

NET CURRENT BILL 461937.08

Prior Bill Amount 1111954.78

Payments Through Dec 13 1111954.78CF

Late Payment Charge 4842.85

TOTAL BALANCE FORWARD 4842.85

PLEASE PAY THE AMOUNT NOW DUE 466779.93

After Jan 3, 1994, a Late Payment Charge of \$4692.01 will be
added, increasing the amount due to \$471471.94.



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

312,555.19

83...

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF BILL Actual Reading
SERVICE ADDRESS WALTER REED HOSPITAL

Reminder Notice
Winter Rates In Effect

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012-0000

Due Jan 28, 1994 784017.65
Due After Jan 28 794215.19

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

702511160180471471940794215190128940784017650000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018



SERVICE ADDRESS WALTER REED HOSPITAL

TYPE OF BILL Actual Reading
Winter Rates In Effect
SERVICE PERIOD Nov 29 to Dec 29, 1993 30 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	962	3167	2205000	Kilowatt Hour Meter	
R921	1000	2369	4904	2535000	Kilowatt Hour Meter	
R920	1000	7846	9950	2104000	Kilowatt Hour Meter	
D 11	1000	4807	8239	3432000	Off-Pk \$.030320/KWH	104058.24
D 08	1000	1994	3710	1716000	Interm \$.039900/KWH	68468.40
D 05	1000	2100	3867	1767000	On-Pk \$.046201/KWH	81638.53
Total KWH Billed				6915000	Non-Residential-GT 3A	
*Maximum Demand				11940.0	Distribution Charge	77610.00
*On-Peak Demand				11930.0	Production & Transm	.00
*Curtailment Demand				0.0	Curtailment Credit-CS	.00
*Curtailment Demand				0.0	Curtailment Penalty-CS	.00

Discount 16588.76CF
Fuel Cost Adjustment at \$.00183520- per KWH 12690.41CF
DC Gross Receipts Adjustment 10049.71
NET CURRENT BILL 312545.71

Prior Bill Amount 951064.69
Payments Through Jan 7 484284.76CF
Late Payment Charge 4692.01
TOTAL BALANCE FORWARD 471471.94

PLEASE PAY THE AMOUNT NOW DUE 784017.65

After Jan 28, 1994, a Late Payment Charge of \$10197.54 will be added, increasing the amount due to \$794215.19.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Jan 27, 1994.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

3354.16

75

E-peco's Taxpayer Identification No. 53-0127330

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading

Reminder Notice
Winter Rates In Effect

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012-0000Due Mar 3, 1994 568311.53
Due After Mar 3 575166.38Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ▶

202511160180234347870575166380303940568311530000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

▶ 0251116018

01

SERVICE
ADDRESS

WALTER REED HOSPITAL

TYPE OF
BILLActual Reading
Winter Rates In EffectSERVICE
PERIOD

Dec 29 to Jan 27, 1994 29 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING		KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
PREVIOUS	PRESNT					
R919	1000	3167	5298	2131000	Kilowatt Hour Meter	
R921	1000	4904	7296	2392000	Kilowatt Hour Meter	
R920	1000	9950	2014	2064000	Kilowatt Hour Meter	
D 11	1000	8239	11734	3495000	Off-Pk \$.030320/KWH	105968.40
D 08	1000	3710	5248	1538000	Interm \$.039900/KWH	61366.20
D 05	1000	3867	5488	1621000	On-Pk \$.046202/KWH	74894.79
Total KWH Billed				6654000	Non-Residential-GT 3A	
*Maximum Demand				12690.0	Distribution Charge	82485.00
*On-Peak Demand				12690.0	Production & Transm	.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00

Discount 16235.72CF

Fuel Cost Adjustment at \$.00221620 per KWH 14746.60

DC Gross Receipts Adjustment 10738.39

NET CURRENT BILL 333963.66

Prior Bill Amount 784017.65

Payments Through Feb 10 471471.94CF

Late Payment Charge 8891.20

Adjustment 87089.04CF

TOTAL BALANCE FORWARD 234347.87

PLEASE PAY THE AMOUNT NOW DUE 568311.53

After Mar 3, 1994, a Late Payment Charge of \$6854.85 will be added, increasing the amount due to \$575166.38.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Feb 25, 1994.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500

**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

59

Pepero's Taxpayer Identification No. 53-01278501

TYPE OF

Actual Reading

Winter Rates In Effect

BILL

SERVICE
ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012-0000

Due Mar 31, 1994 257043.36
Due After Mar 31 260395.77

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ▶

20251116018000000000000260395770331940257043360000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT ▶ 0251116018

TYPE OF
BILL

Actual Reading

Winter Rates In Effect

SERVICE
ADDRESS

WALTER REED HOSPITAL

SERVICE
PERIOD

Jan 27 to Feb 25, 1994 29 days

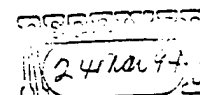
METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	5298 7543	2245000	Kilowatt Hour Meter	
R921	1000	7296 9582	2286000	Kilowatt Hour Meter	
R920	1000	2014 4235	2221000	Kilowatt Hour Meter	
D 11	1000	11734 15202	3468000	Off-Pk \$.030320/KWH	105149.76
D 08	1000	5248 6890	1642000	Interm \$.039900/KWH	65515.80
D 05	1000	5488 7204	1716000	On-Pk \$.046202/KWH	79282.84
Total KWH Billed			6826000	Non-Residential-GT 3A	
*Maximum Demand			12020.0	Distribution Charge	78130.00
*On-Peak Demand			12070.0	Production & Transm	.00
*Curtailment Demand			0.0	Curtailment Credit-CS	.00
*Curtailment Demand			0.0	Curtailment Penalty-CS	.00

Discount 16403.9201
Avg. Fuel Cost Adjustment at \$.00187330 per KWH 12787.26
DC Gross Receipts Adjustment 10779.46
NET CURRENT BILL 335241.20

Prior Bill Amount 1039783.47
Payments Through Mar 10 1117981.3101
TOTAL BALANCE FORWARD 78197.8401

PLEASE PAY THE AMOUNT NOW DUE 257043.36

After Mar 31, 1994, a Late Payment Charge of \$3352.41 will be
added, increasing the amount due to \$260395.77.





Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Pepco's Taxpayer Identification No. 53-01278801

AMOUNT PAID

61

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading

Winter Rates In Effect

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due May 3, 1994 364011.83
Due After May 3 368841.68

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

102511160180003352410368841680503940364011830000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

01

SERVICE
ADDRESS

WALTER REED HOSPITAL

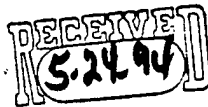
TYPE OF
BILL
SERVICE
PERIOD

Actual Reading
Winter Rates In Effect
Feb 25 to Mar 28, 1994 31 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	7543	9957	2414000	Kilowatt Hour Meter	
R921	1000	9582	2032	2450000	Kilowatt Hour Meter	
R920	1000	4235	6634	2399000	Kilowatt Hour Meter	
D 11	1000	15202	18928	3726000	Off-Pk \$.030543/KWH	113806.94
D 08	1000	6890	8654	1764000	Interm \$.040195/KWH	70905.74
D 05	1000	7204	9051	1847000	On-Pk \$.046549/KWH	85976.64
Total KWH Billed				7337000	Non-Residential-GT 3A	
*Maximum Demand				12990.0	Distribution Charge	85214.40
*On-Peak Demand				12990.0	Production & Transm	.00
*Curtailment Demand				0.0	Curtailment Credit-CS	.00
*Curtailment Demand				0.0	Curtailment Penalty-CS	.00

Discount 17795.18C
Avg. Fuel Cost Adjustment at \$.00149300 per KWH 10954.12
DC Gross Receipts Adjustment 11596.76
NET CURRENT BILL 360659.42

Prior Bill Amount 591007.02
Payments Through Apr 13 591007.02C
Late Payment Charge 3352.41
TOTAL BALANCE FORWARD 3352.41



PLEASE PAY THE AMOUNT NOW DUE 364011.83

After May 3, 1994, a Late Payment Charge of \$4829.85 will be added, increasing the amount due to \$368841.68.

Pepco Gatekeepers look out for the safety and well-being of senior customers. In the April issue of LINES, learn about the Gatekeeper program and how to participate. And, if you're a Pepco customer age 55 or more, find out how you can receive a free subscription to SENIORLINES, Pepco's special newsletter for senior citizens.



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Pepco's Taxpayer Identification No. 53-01273801

AMOUNT PAID

579000 43

521

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading

Winter Rates In Effect

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Jun 1, 1994 743789.26
Due After Jun 1 754220.18

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

402511160180364011830754220180601940743789260000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

01

SERVICE
ADDRESS

WALTER REED HOSPITAL

TYPE OF
BILL

Actual Reading
Winter Rates In Effect

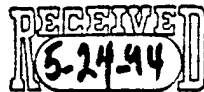
SERVICE
PERIOD

Mar 28 to Apr 26, 1994 29 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	9957	2223	2266000	Kilowatt Hour Meter	
R921	1000	2032	4452	2420000	Kilowatt Hour Meter	
R920	1000	6634	9073	2439000	Kilowatt Hour Meter	
D 11	1000	18928	22358	3430000	Off-Pk \$.031067/KWH	106560.66
D 08	1000	8654	10495	1841000	Interm \$.040827/KWH	75162.96
D 05	1000	9051	10976	1925000	On-Pk \$.047258/KWH	90972.15
Total KWH Billed				7196000	Non-Residential-GT 3A	
*Maximum Demand				13380.0	Distribution Charge	88977.00
*On-Peak Demand				13380.0	Production & Transm	.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00

Discount 18016.27CR
Avg. Fuel Cost Adjustment at \$.00332260 per KWH 23909.44
DC Gross Receipts Adjustment 12211.49
NET CURRENT BILL 379777.43

Prior Bill Amount 621055.19
Payments Through May 11 257043.36CR
TOTAL BALANCE FORWARD 364011.83



PLEASE PAY THE AMOUNT NOW DUE 743789.26

After Jun 1, 1994, a Late Payment Charge of \$10430.92 will be added, increasing the amount due to \$754220.18.

Summer rates (June - October) go into effect soon. Summer rates are greater because of the higher costs to produce electricity, so energy conservation is even more important during the summer. One way to save energy is to use high-efficiency light bulbs and appliances. Please use your Save & Save Again coupons for energy-efficient lighting and water heater conservation products. Haven't received your coupons or want up to 10 additional coupons? Call (202) 457-SAVE.



63

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading

Summer Rates In Effect

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Jun 29, 1994 530024.67
Due After Jun 29 535324.92

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ➤ ACCOUNT NO.

902511160180000000000535324920629940530024670000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ➤ 0251116018

TYPE OF
BILL

Actual Reading

SERVICE
ADDRESS

Summer Rates In Effect

SERVICE
PERIOD

Apr 26 to May 25 1994 29 DAYS

WALTER REED HOSPITAL

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	2223	4496	2273000	Kilowatt Hour Meter	
R921	1000	4452	6846	2394000	Kilowatt Hour Meter	
R920	1000	9073	1526	2453000	Kilowatt Hour Meter	
D 11	1000	22358	25805	3447000	Off-Pk \$.028964/KWH	99841.32
D 08	1000	10495	12314	1819000	Interm \$.041664/KWH	75788.09
D 05	1000	10976	12900	1924000	On-Pk \$.057115/KWH	109890.64
Total KWH Billed				7190000	Non-Residential-GT 3A	
*Maximum Demand				14050.0	Distribution Charge	93432.50
*On-Peak Demand				14050.0	Production & Transm	148930.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00
Discount						26313.35C
Fuel Cost Adjustment at \$.00317920 per KWH						22858.44
DC Gross Receipts Adjustment						17422.85
NET CURRENT BILL						541850.49
Prior Bill Amount						743789.26
Payments Through Jun 8						755615.08C
TOTAL BALANCE FORWARD						11825.82C

PLEASE PAY THE AMOUNT NOW DUE 530024.67

After Jun 29, 1994, a Late Payment Charge of \$5300.25 will be
added, increasing the amount due to \$535324.92.

Consider installing a ceiling fan to help you save money and
energy this summer. Read all about it in the June issue of
LINES. And check out our tips on how you can prepare for
possible power outages during the summer storm season.

The scheduled meter read date for your next bill is Jun 24, 1994

**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Peeco's Taxpayer Identification No. 53-0127380

AMOUNT PAID

1073

TYPE OF

Actual Reading

Duplicate Bill

BILL

Summer Rates In Effect

SERVICE

ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
01 ATT: HSHLL PW/BUDGET
DIRECTORATE OF PUB WORKS
WASHINGTON DC 20307-5001

Due Aug 8, 1994 669843.62
Due After Aug 8 676431.00

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

102511160180013266870676431000808940669843620000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ▶

0251116018

SERVICE
ADDRESS

WALTER REED HOSPITAL

TYPE OF

Actual Reading

BILL

Summer Rates In Effect

SERVICE

PERIOD

May 25 to June 2, 1994 33 days

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	4496 7518	3022000	Kilowatt Hour Meter	
R921	1000	6846 105	3259000	Kilowatt Hour Meter	
R920	1000	1526 4720	3194000	Kilowatt Hour Meter	
D 11	1000	25805 30717	4912000	Off-Pk \$.029146/KWH	143166.17
D 08	1000	12314 14589	2275000	Interm \$.041882/KWH	95283.53
D 05	1000	12900 15275	2375000	On-PK \$.057383/KWH	136285.01
Total KWH Billed			9562000	Non-Residential-GT 3A	
*Maximum Demand			16270.0	Distribution Charge	108792.06
*On-Peak Demand			16270.0	Production & Transm	173058.56
*Curtailement Demand			2270.0	Curtailement Credit-CS	18828.96CF
*Curtailement Demand			0.0	Curtailement Penalty-CS	.00

Discount 32684.13CF

Fuel Cost Adjustment at \$.00295770 per KWH 28281.52

DC Gross Receipts Adjustment 23222.99

NET CURRENT BILL 656576.75

Prior Bill Amount 530024.67

Payments Through Jul 18 530024.67CF

Late Payment Charge 5281.05

Adjustment 11825.82

TOTAL BALANCE FORWARD 13266.87

Conservation Rebate 3840.00CF

PLEASE PAY THE AMOUNT NOW DUE 669843.62

After Aug 8, 1994, a Late Payment Charge of \$6587.38 will be
added, increasing the amount due to \$676431.00.

Information from the American Red Cross states that if you are
caught in a storm, rather than lying down, squat low to the
ground, making yourself the smallest possible target for
lightning.



503

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812

Telephone (202) 833-7500

E-Pace's Taxpayer Identification No. 53-0127330

AMOUNT PAID

69072654

Actual Reading
 SERVICE ADDRESS
 WALTER REED HOSPITAL

Reminder Notice
 Summer Rates In Effect

H WALTER REED ARMY MED CTR
 01 ATT: HSHLL DPW/BUDGET
 ROOM C 028 BUILDING 1
 WASHINGTON DC 20307-5001

Due Aug 31, 1994 1341780.91
 Due After Aug 31 1358276.60

Payment may be made
 payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

002511160180651054371358276600831941341780910000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

SERVICE ADDRESS WALTER REED HOSPITAL

Actual Reading
 Summer Rates In Effect
 SERVICE PERIOD Jun 27 to July 28, 1994 31 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	7518	650	3132000	Kilowatt Hour Meter	
R921	1000	105	3487	3382000	Kilowatt Hour Meter	
R920	1000	4720	8003	3283000	Kilowatt Hour Meter	
D 11	1000	30717	35592	4875000	Off-Pk \$.029195/KWH	142328.89
D 08	1000	14589	17035	2446000	Interm \$.041945/KWH	102599.11
D 05	1000	15275	17836	2561000	On-Pk \$.057463/KWH	147165.27
Total KWH Billed				9882000	Non-Residential-GT 3A	
*Maximum Demand				15310.0	Distribution Charge	102577.00
*On-Peak Demand				16360.0	Production & Transm	174234.00
*Curtailement Demand				0.0	Curtailement Credit-CS	.00
*Curtailement Demand				0.0	Curtailement Penalty-CS	.00
Discount						33289.24CR
Fuel Cost Adjustment at \$.00310470 per KWH						30680.65
DC Gross Receipts Adjustment						24430.86
NET CURRENT BILL						690726.54

Prior Bill Amount 1189962.47
 Payments Through Aug 10 530024.67CR
 Adjustment 11825.82
 TOTAL BALANCE FORWARD 651054.37

Conservation Rebate 20709.25CR

PLEASE PAY THE AMOUNT NOW DUE 1341780.91

After Aug 31, 1994, a Late Payment Charge of \$16495.69 will be
 added, increasing the amount due to \$1358276.60.

Just a reminder that a past due amount remained on your account
 at the time we prepared your bill.

The scheduled meter read date for your next bill is Aug 24, 1994.



67

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812

Telephone (202) 833-7500

Telex 910000 PEPCO

AMOUNT DUE

549400

Actual Reading
 SERVICE ADDRESS
 WALTER REED HOSPITAL

Reminder Notice
 Summer Rates In Effect

H WALTER REED ARMY MED CTR
 01 ATT: HSHLL DPW/BUDGET
 ROOM C 028 BUILDING 1
 WASHINGTON DC 20307-5001

Due Oct 3, 1994 1240221.1
 Due After Oct 31 240221.1

Payment may be made
 payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

202511160180605837291240221391003941240221390000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018
 SERVICE ADDRESS
 WALTER REED HOSPITAL

TYPE OF BILL Actual Reading
 Summer Rates In Effect
 SERVICE PERIOD Jul 28 to Aug 24 1994

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	650 3209	2559000	Kilowatt Hour Meter	
R921	1000	3487 6250	2763000	Kilowatt Hour Meter	
R920	1000	8003 704	2701000	Kilowatt Hour Meter	
D 11	1000	35592 39616	4024000	Off-Pk \$.029195/KWH	117483.1
D 08	1000	17035 19014	1979000	Interm \$.041945/KWH	83010.4
D 05	1000	17836 19929	2093000	On-Pk \$.057465/KWH	120276.0
Total KWH Billed			8096000	Non-Residential-GT 3A	
*Maximum Demand			15980.0	Distribution Charge	107066.0
*On-Peak Demand			15980.0	Production & Transm	170187.0
*Curtailment Demand			0.0	Curtailment Credit-CS	.0
*Curtailment Demand			0.0	Curtailment Penalty-CS	.0
Discount					29773.1
Fuel Cost Adjustment at \$.00539730 per KWH					43696.1
DC Gross Receipts Adjustment					22438.0
NET CURRENT BILL					634384.1
Prior Bill Amount					1360570.1
Payments Through Sep 12					669843.6
TOTAL BALANCE FORWARD					605837.2
Conservation Rebate					84889.2

PLEASE PAY THE AMOUNT NOW DUE 1240221.1

Just a reminder that a past due amount remained on your account
 at the time we prepared your bill.

The scheduled meter read date for your next bill is Sep 26, 1994

**Potomac Electric Power Company**P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

6439238

59

(Peeco's Taxpayer Identification No. 53-0127890)

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading

Reminder Notice

Summer Rates In Effect

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR
01 ATT: HSHLL DPW/BUDGET
ROOM C 028 BUILDING 1
WASHINGTON DC 20307-5001Due Oct 26, 1994 1192887.23
Due After Oct 26 1207543.89Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

802511160180545557351207543891026941192887230000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

SERVICE
ADDRESS

WALTER REED HOSPITAL

TYPE OF
BILLSERVICE
PERIOD

Actual Reading

Summer Rates In Effect

Aug 24 to Sep 26 1994 33 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING		KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
		PREVIOUS	PRESENT			
R919	1000	3209	6125	2916000	Kilowatt Hour Meter	
R921	1000	6250	9380	3130000	Kilowatt Hour Meter	
R920	1000	704	3790	3086000	Kilowatt Hour Meter	
D 11	1000	39616	44310	4694000	Off-Pk \$.029286/KWH	137472.60
D 08	1000	19014	21174	2160000	Interm \$.042036/KWH	90799.66
D 05	1000	19929	22186	2257000	On-Pk \$.057556/KWH	129904.60
Total KWH Billed				9111000	Non-Residential-GT 3A	
*Maximum Demand				15270.0	Distribution Charge	102309.00
*On-Peak Demand				15220.0	Production & Transm	162093.00
*Curtailment Demand				0.0	Curtailment Credit-CS	.00
*Curtailment Demand				0.0	Curtailment Penalty-CS	.00

Discount 30943.59CR

Fuel Cost Adjustment at \$.00359990 per KWH 32798.68

DC Gross Receipts Adjustment 22895.93

NET CURRENT BILL 647329.88

Prior Bill Amount 1240221.39

Payments Through Oct 5 690726.54CR

TOTAL BALANCE FORWARD 545557.35

Conservation Rebate 3937.50CR

PLEASE PAY THE AMOUNT NOW DUE 1192887.23

After Oct 26, 1994, a Late Payment Charge of \$14656.66 will be added, increasing the amount due to \$1207543.89.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Oct 25, 1994.

**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

10010 E

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF BILL Edited Reading

Winter Rates In Effect

SERVICE ADDRESS 14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Feb 25, 1992 38269.18
Late Payment Charge .00
Due After Feb 25 38269.18

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ▶ ACCOUNT NO

30251124012000000000000382691802259200382691800000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ▶ 0251124012

20

Edited Reading

Winter Rates

14TH & ELDER STS NW

Due Feb 25 to 2/28/92

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	2901	3326	425000	Kilowatt Hour Meter	
N964	1000	2284	2742	458000	Kilowatt Hour Meter	
				468425	Off-Pk \$.028329/KWH	13270.48
				204821	Int-Pk \$.037259/KWH	7631.63
				209665	On-Pk \$.043272/KWH	9072.73
Total KWH Billed				882911	Non-Residential-GT 3A	
*Maximum Demand				1698.2	Distribution Charge	10274.11
*On-Peak Demand				1588.4	Production & Transm	.00
Discount						2012.45
Fuel Cost Adjustment at \$.00135670- per KWH						1197.84
DC Gross Receipts Adjustment						1230.52
NET CURRENT BILL						38269.18

Prior Bill Amount 41853.33
Payments Through Feb 3 41853.33

PLEASE PAY THE AMOUNT NOW DUE 38269.18

You may have noticed that PEPCO's bill format looks different.
See Lines Plus for an explanation on how your bill has changed.

Practicing energy conservation today means saving money and
energy without sacrificing comfort and convenience. For energy-
saving tips or descriptions of the wide array of Powerwatchers
options available to you, call us at (202) 833-7500.



Potomac Electric Power Company
P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

1285

(Pepco's Taxpayer Identification No. 53-0127880)

Actual Reading Winter Rates In Effect

14TH & ELDER STS NW

WALTER REED ARMY MED CTR Due Mar 19, 1992 39156.39
FACILITIES ENGR DIV Late Payment Charge 391.56
-- GA AVE & BUTTERNUT ST NW Due After Mar 19 39547.95
WASHINGTON DC 20012
Payment may be made payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

2025112401200000000000039547950319920039156390000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251124012 20
TYPE OF BILL Actual Reading
SERVICE PERIOD Winter Rates In Effect
Jan 27 to Feb 26 1992 30 DAYS

MULTI-PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
5 1000	3326	3628	302000	Kilowatt Hour Meter	
4 1000	2742	3300	558000	Kilowatt Hour Meter	
			402573	Off-Pk \$.028329/KWH	11404.89
			219825	Int-Pk \$.037260/KWH	8190.68
			238201	On-Pk \$.043261/KWH	10304.92
			860599	Non-Residential-GT 3A	
			1725.0	Distribution Charge	10436.25
			1698.2	Production & Transm	.00
Total KWH Billed					
Maximum Demand					
*On-Peak Demand					
Discount					2016.84CR
Fuel Cost Adjustment at \$.00049100- per KWH					422.55CR
DC Gross Receipts Adjustment					1259.04
NET CURRENT BILL					39156.39
Prior Bill Amount					38269.18
Payments Through Feb 27					38269.18CR

PLEASE PAY THE AMOUNT NOW DUE 39156.39

er Mar 19, 1992, a Late Payment Charge of \$391.56 will be ed, increasing the amount due to \$39547.95.

cticing energy conservation today means saving money and rgy without sacrificing comfort and convenience. For energy- ing tips or descriptions of the wide array of Powerwatchers ions available to you, call us at (202) 833-7500.

Period	Days	KWH-Used	Avg KWH per Day	% Change
91	31	621666	26505.4	
92	30	660599	28686.6	8.2



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

12253

Peeco's Taxpayer Identification No. 53-01278801

TYPE OF BILL Actual Reading
SERVICE ADDRESS 14TH & ELDER STS NW

Winter Rates In Effect

H --- WALTER REED ARMY MED CTR Due Apr 20, 1992 37413.14
20 FACILITIES ENGR DIV Late Payment Charge 374.13
--- GA AVE & BUTTERNUT ST NW Due After Apr 20 37787.27
WASHINGTON DC 20012
Payment may be made payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

4025112401200000000000037787270420920037413140000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

► 0251124012		20		TYPE OF BILL Actual Reading	
SERVICE ADDRESS 14TH & ELDER STS NW		FEB 28 to MAR 28		PERIOD	

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	3628	4033	405000	Kilowatt Hour Meter	
N964	1000	3300	3719	419000	Kilowatt Hour Meter	
				373950	Off-Pk \$.028329/KWH	10594.00
				214384	Int-Pk \$.037260/KWH	7987.95
				231395	On-Pk \$.043263/KWH	10011.04
				Total KWH Billed	819729 Non-Residential-GT 3A	
				*Maximum Demand	1660.7 Distribution Charge	10047.24
				*On-Peak Demand	1642.0 Production & Transm	.00
					Discount	1932.01CR
					Fuel Cost Adjustment at \$.00060760- per KWH	498.07CR
					DC Gross Receipts Adjustment	1202.99
					NET CURRENT BILL	37413.14
					Prior Bill Amount	39156.39
					Payments Through Mar 30	39156.39CR

PLEASE PAY THE AMOUNT NOW DUE 37413.14

After Apr 20, 1992, a Late Payment Charge of \$374.13 will be added, increasing the amount due to \$37787.27.

PEPCO wants to help you shed some light on energy efficiency through use of compact fluorescent and halogen light bulbs. See this month's issue of Lines for information. Later this month, PEPCO will begin mailing coupons to every residential customer for up to 75 percent off the purchase price of these energy-efficient bulbs. Be sure to watch for them.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Mar 91	29	786619	27124.8	
Mar 92	29	819729	28266.5	4.2

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

12071

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF BILL Actual Reading

Winter Rates In Effect

SERVICE ADDRESS 14TH & ELDER STS NW

H
20 WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due May 19, 1992 36475.43
Late Payment Charge 364.75
Due After May 19 36840.18

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

3025112401200000000000036840180519920036475430000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251124012	20	Actual Reading	Winter Rates In Effect
SERVICE ADDRESS: 14TH & ELDER STS NW	PERIOD: Mar 25 to Apr 24 1992	29	DA

METER NO. LAST DIGITS	MULTI- PLIER	METER READING		KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
		PREVIOUS	PRESENT			
N965	1000	4033	4437	404000	Kilowatt Hour Meter	
N964	1000	3719	4132	413000	Kilowatt Hour Meter	
				374437	Off-Pk \$.028329/KWH	10607.80
				215224	Interm \$.037260/KWH	8019.25
				227939	On-Pk \$.043265/KWH	9861.81
Total KWH Billed				817600	Non-Residential-GT 3A	
*Maximum Demand				1639.3	Distribution Charge	9917.77
*On-Peak Demand				1620.6	Production & Transm	.00
Discount						1920.33C
Fuel Cost Adjustment at \$.00144780- per KWH						1183.72C
DC Gross Receipts Adjustment						1172.85
NET CURRENT BILL						36475.43

Prior Bill Amount 37413.14
Payments Through Apr 28 37413.14C

PLEASE PAY THE AMOUNT NOW DUE 36475.43

After May 19, 1992, a Late Payment Charge of \$364.75 will be added, increasing the amount due to \$36840.18.

PEPCO's Kilowatchers Club is a great way to save money and conserve energy. If you're not a member, see this month's issue of Lines for details on how to take advantage of this Powerwatchers opportunity, or call (202) 833-7500 for information. Current members need not reapply.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Apr 91	30	811786	27059.5	
Apr 92	29	817600	28193.1	4.2

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

12114

Pepco's Taxpayer Identification No. 53-0127880

TYPE OF BILL
Actual Reading

Winter Rates In Effect

SERVICE ADDRESS
14TH & ELDER STS NW

H WALTER REED ARMY MED CTR Due Jun 18, 1992 43784.44
20 FACILITIES ENGR DIV Late Payment Charge 437.84
--- GA AVE & BUTTERNUT ST NW Due After Jun 18 44222.28
WASHINGTON DC 20012 Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

7025112401200000000000044222280618920043784440000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

► 0251124012	20
SERVICE ADDRESS: 14TH & ELDER STS NW	TYPE OF BILL: Actual Reading Winter Rates In Effect SERVICE PERIOD: Apr 24 to May 28, 1992

METER NO LAST DIGITS	MULTI- PLIER	METER READING		KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
		PREVIOUS	PRESENT			
N965	1000	4437	4902	465000	Kilowatt Hour Meter	
N964	1000	4132	4571	439000	Kilowatt Hour Meter	
				448880	Off-Pk \$.028329/KWH	12716.77
				220923	Interm \$.037259/KWH	8231.59
				237110	On-Pk \$.043261/KWH	10257.81
Total KWH Billed				906913	Non-Residential-GT 3A	
*Maximum Demand				2121.4	Distribution Charge	12834.47
*On-Peak Demand				1671.4	Production & Transm	.00
Discount						2202.03C
Fuel Cost Adjustment at \$.00059320 per KWH						537.98
DC Gross Receipts Adjustment						1407.85
NET CURRENT BILL						43784.44

Prior Bill Amount 36475.43
Payments Through May 28 36475.43C

PLEASE PAY THE AMOUNT NOW DUE 43784.44

After Jun 18, 1992, a Late Payment Charge of \$437.84 will be added, increasing the amount due to \$44222.28.

Please note that summer billing rates will be applied to your next bill, and will be in effect through your October bill. So, the electricity you use after the service period shown above will be priced on summer rates. Rates are higher in the summer because it costs more to meet the higher demand for electricity created by heavy air conditioner use. The situation is just the opposite in the winter billing months (November-May) when demand for electricity diminishes, and rates are lower.

Period	Days	KWH-Used	Avg KWH per Day	% Change
May 91	29	950982	32792.5	
May 92	32	906913	28341.0	13.6-

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

120851

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF
BILL

Actual Reading

Summer Rates In Effect

SERVICE
ADDRESS

14TH & ELDER STS NW

H WALTER REED ARMY MED CTR Due Jul 20, 1992 80532.14
20 FACILITIES ENGR DIV Late Payment Charge 805.32
--- GA AVE & BUTTERNUT ST NW Due After Jul 20 81337.46
WASHINGTON DC 20012

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

4025112401200000000000081337460720920080532140000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

► 0251124012

TYPE OF Actual Reading

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	4902	5365	463000	Kilowatt Hour Meter	
N964	1000	4571	5211	640000	Kilowatt Hour Meter	
				515205	Off-Pk \$.026380/KWH	13591.11
				287565	Interm \$.038019/KWH	10933.22
				301071	On-Pk \$.052254/KWH	15732.30
Total KWH Billed				1103841	Non-Residential-GT 3A	
*Maximum Demand				2584.8	Distribution Charge	15638.04
*On-Peak Demand				2584.8	Production & Transm	25072.56

Discount 4048.36
Fuel Cost Adjustment at \$.00092750 per KWH 1023.81
DC Gross Receipts Adjustment 2589.46
NET CURRENT BILL 80532.14

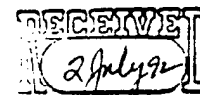
Prior Bill Amount 43784.44
Payments Through Jun 26 43784.44

PLEASE PAY THE AMOUNT NOW DUE 80532.14

After Jul 20, 1992, a Late Payment Charge of \$805.32 will be added, increasing the amount due to \$81337.46.

Thank you for the prompt manner in which you pay your bill.

See the June issue of LINES to learn if you qualify for Pepco's Time-Of-Use rates, or call TOU Services at (202) 331-6248 *** T schedule a free presentation on energy-related topics for your organization, call Pepco's Speakers Bureau at (202) 872-2336.



Period	Days	KWH-Used	Avg KWH per Day	% Change
Jun 91	32	1490347	46573.3	
Jun 92	29	1103841	38063.5	18.3-

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

* IF APPLICABLE

Potomac Electric Power Company



12350

TYPE OF BILL
SERVICE ADDRESS

Actual Reading

14TH & ELDER STS NW

Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

Pepco's Taxpayer Identification No. 53-01278801

AMOUNT PAID

Summer Rates In Effect

H WALTER REED ARMY MED CTR
20--- FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Aug 18, 1992 107405.95
Due After Aug 18 108480.01

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

3025112401200000000000108480010818920107405950000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT ► 0251124012

20

TYPE OF BILL Actual Reading
Summer Rates In Effect
SERVICE PERIOD Jun. 24 to Jul. 20, 1992 30

SERVICE ADDRESS 14TH & ELDER STS NW

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	5365	6019	654000	Kilowatt Hour Meter	
N964	1000	5211	6081	870000	Kilowatt Hour Meter	
				738451	Off-Pk \$.027422/KWH	20250.30
				381525	Interm \$.039521/KWH	15078.50
				403863	On-Pk \$.054296/KWH	21928.54
Total KWH Billed				1523839	Non-Residential-GT 3A	
*Maximum Demand				3018.8	Distribution Charge	19033.53
*On-Peak Demand				3018.8	Production & Transm	30479.81
Discount						5338.520
Avg. Fuel Cost Adjustment at \$.00165390 per KWH						2520.23
DC Gross Receipts Adjustment						3453.56
NET CURRENT BILL						107405.95

Prior Bill Amount 80532.14
Payments Through Jul 28 80532.140

PLEASE PAY THE AMOUNT NOW DUE 107405.95

After Aug 18, 1992, a Late Payment Charge of \$1074.06 will be added, increasing the amount due to \$108480.01.

In the market for a new home? Look for a Pepco Energy Saver Home... "Energy Efficiency With All the Comforts of Home.(sm)" See details in LINES.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Jul 91	30	1570391	52346.4	
Jul 92	30	1523839	50794.6	3.0-

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE



Potomac Electric Power Company

1100 20th Avenue NW
Washington, DC 20037
(202) 872-2465

AMOUNT PAID

12277

Actual Reading

Summer Rates In Effect

SERVICE ADDRESS 14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Sep 16, 1992 101739.54
Due After Sep 16 102756.94

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

7025112401200000000000102756940916920101739540000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251124012 20

SERVICE ADDRESS 14TH & ELDER STS NW

TYPE OF BILL Actual Reading
Summer Rates In Effect
SERVICE PERIOD Jul 24 to Aug 24 1992 31 DAYS

DATE	AMT	METER	READING	PREVIOUS	PRESENT	KWH USED	DESCRIPTION	AMOUNT
N965	1000	6019	6542			523000	Kilowatt Hour Meter	
N964	1000	6081	6882			801000	Kilowatt Hour Meter	
						656992	Off-Pk \$.028219/KWH	18540.31
						323149	Interm \$.040670/KWH	13142.47
						343899	On-Pk \$.055880/KWH	19217.24
Total KWH Billed						1324040	Non-Residential-GT 3A	
*Maximum Demand						3010.8	Distribution Charge	19570.20
*On-Peak Demand						2992.0	Production & Transm	31116.80
Discount								5079.35CF
Fuel Cost Adjustment at \$.00148070 per KWH								1960.51
DC Gross Receipts Adjustment								3271.36
NET CURRENT BILL								101739.54
Prior Bill Amount								107405.95
Payments Through Aug 26								107405.95CF

PLEASE PAY THE AMOUNT NOW DUE 101739.54

After Sep 16, 1992, a Late Payment Charge of \$1017.40 will be added, increasing the amount due to \$102756.94.

Are you thinking about buying a new air conditioner or heat pump? Pepco offers rebates on qualifying high efficiency units. For more details, call Pepco's Residential Energy Services at (202)872-2465.



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

123456

Pepco's Taxpayer Identification No. 53-0127880

TYPE OF
BILL

Actual Reading

Summer Rates In Effect

SERVICE
ADDRESS

14TH & ELDER STS NW

H
20

WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Oct 19, 1992 111135.97
Due After Oct 19 112247.33

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

902511240120000000000112247331019920111135970000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

► 0251124012

20

Actual Reading
Summer Rates
Aug 24 to Sep 23

METER NO LAST DIGITS	MULTI- PLIER	METER READING		KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
		PREVIOUS	PRESENT			
N965	1000	6542	7448	906000	Kilowatt Hour Meter	
N964	1000	6882	7612	730000	Kilowatt Hour Meter	
				794748	Off-Pk \$.028220/KWH	22427.79
				410222	Interm \$.040670/KWH	16683.73
				431528	On-Pk \$.055868/KWH	24108.69
Total KWH Billed				1636498	Non-Residential-GT 3A	
*Maximum Demand				2981.3	Distribution Charge	19378.45
*On-Peak Demand				2981.3	Production & Transm	31005.52

Discount 5680.210
 Fuel Cost Adjustment at \$.00022090- per KWH 361.500
 DC Gross Receipts Adjustment 3573.50
NET CURRENT BILL 111135.97

Prior Bill Amount 101739.54
 Payments Through Sep 25 101739.540

PLEASE PAY THE AMOUNT NOW DUE 111135.97

After Oct 19, 1992, a Late Payment Charge of \$1111.36 will be added, increasing the amount due to \$112247.33.

Don't forget, summer rates are in effect June through October. Please use energy wisely.

Residential and commercial customers can save money, save energy with Pepco's Powerwatchers programs. Call 202/833-7500 for information.

30 SEP 1992

Period	Days	KWH-Used	Avg KWH per Day	% Change
Sep 91	32	1625938	50810.6	
Sep 92	30	1636498	54549.9	7.4

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

* IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

pepco**Potomac Electric Power Company**P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

(Pepco's Taxpayer Identification No. 53-0127880)

TYPE OF
BILL
SERVICE
ADDRESS**Actual Reading****Summer Rates In Effect****14TH & ELDER STS NW**H --- WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Nov 16, 1992 67831.41

Due After Nov 16 68509.72

29 OCT 1992

Payment may be made

payable to pepco

ADMIN OFFICE DEH

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

602511240120000000000068509721116920067831410000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

0251124012 20

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	7448 7869	421000	Kilowatt Hour Meter	
N964	1000	7612 8024	412000	Kilowatt Hour Meter	
			398324	Off-Pk \$.028219/KWH	11240.70
			210512	Interm \$.040669/KWH	8561.52
			225119	On-Pk \$.055912/KWH	12586.94
		Total KWH Billed	833955	Non-Residential-GT 3A	
		*Maximum Demand	2306.3	Distribution Charge	14990.95
		*On-Peak Demand	2306.3	Production & Transm	23985.52

Discount 3568.280
 Fuel Cost Adjustment at \$.00257450- per KWH 2147.020
 DC Gross Receipts Adjustment 2181.08
NET CURRENT BILL 67831.41

Prior Bill Amount 111135.97
 Payments Through Oct 26 111135.970

PLEASE PAY THE AMOUNT NOW DUE 67831.41

After Nov 16, 1992, a Late Payment Charge of \$678.31 will be added, increasing the amount due to \$68509.72.

Pepco's new Custom Rebate Program offers commercial customers cash rebates for improvements in energy efficiency to any existing electrical equipment. If you're replacing worn equipment, remodeling or looking to lower overhead, call Pepco at 202/872-4630 for additional information about this comprehensive program.

The scheduled meter read date for your next bill is Nov 20, 1992

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

pepco**Potomac Electric Power Company**P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

12205

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF
BILL
SERVICE
ADDRESS**Actual Reading****Winter Rates In Effect****14TH & ELDER STS NW****H
20****WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012****Due Dec 15, 1992 38495.66
Due After Dec 15 38880.62**Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

7025112401200000000000038880621215920038495660000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. **0251124012****20**SERVICE ADDRESS **14TH & ELDER STS NW**TYPE OF BILL **Actual Reading**
Winter Rates In Effect
PERIOD **Oct 22 to Nov 20, 1992**

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	7869	8289	420000	Kilowatt Hour Meter	
N964	1000	8024	8437	413000	Kilowatt Hour Meter	
				399981	Off-Pk \$.030319/KWH	12127.42
				212016	Interm \$.039900/KWH	8459.44
				223632	On-Pk \$.046283/KWH	10350.36
Total KWH Billed				835629	Non-Residential-GT 3A	
*Maximum Demand				1684.8	Distribution Charge	10951.20
*On-Peak Demand				1674.1	Production & Transm	.00
Discount						2094.42
Fuel Cost Adjustment at \$.00303500- per KWH						2536.13
DC Gross Receipts Adjustment						1237.79
NET CURRENT BILL						38495.66

Prior Bill Amount **67831.41**
Payments Through Nov 24 **67831.41**PLEASE PAY THE AMOUNT NOW DUE **38495.66**

After Dec 15, 1992, a Late Payment Charge of \$384.96 will be added, increasing the amount due to \$38880.62.

Pepco has filed its Productivity Improvement Plan for 1992 with the D.C. Public Service Commission. The plan sets forth cost-effective productivity improvement goals for Pepco. For more information or to obtain a copy, call 202/833-7500, or visit the Pepco Customer Service Center at 1900 Pennsylvania Ave., N.W. Hours are 8:30 a.m. to 5:15 p.m.

The scheduled meter read date for your next bill is Dec 22, 1992

Period	Days	KWH-Used	Avg KWH per Day	% Change
Nov 91	27	753271	27898.9	
Nov 92	29	835629	28814.8	3.3

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

INDEX

(Pepco's Taxpayer Identification No. 53-0127880)

TYPE OF BILL	Actual Reading
SERVICE ADDRESS	14TH & ELDER STS NW

Winter Rates In Effect

JAN 04 1993

ADMIN OFFICE DEF

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Jan 19, 1993	40033.81
Due After Jan 19	40434.21

Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

30251124012000000000004043421011993004003387000000000000

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

0251124012

21

METER NO
LAST DIGITS

MULTI-PLIER

METER READING

PREVIOUS	PRESENT
-----------------	----------------

KWH USED
KW DEMAND*

DESCRIPTION

AMOUNT

N965	1000	8289	8746	457000	Kilowatt Hour Meter	
N964	1000	8437	8909	472000	Kilowatt Hour Meter	
				459534	Off-Pk \$.030319/KWH	13933.07
				231905	Interm \$.039900/KWH	9253.01
				239903	On-Pk \$.046276/KWH	11101.92
Total KWH Billed				931342	Non-Residential-GT 3A	
*Maximum Demand				1711.6	Distribution Charge	11125.40
*On-Peak Demand				1711.6	Production & Transm	.00

	Discount	2270.67
Fuel Cost Adjustment at \$.00472020- per KWH		4396.12
DC Gross Receipts Adjustment		1287.26
NET CURRENT BILL		40033.87

Prior Bill Amount	38495.66
Payments Through Dec 29	38495.66

PLEASE PAY THE AMOUNT NOW DUE 40033.87

After Jan 19, 1993, a Late Payment Charge of \$400.34 will be added, increasing the amount due to \$40434.21.

The D.C. Energy Office offers the Low-Income Home Energy Assistance Program (LIHEAP) and the Complementary Energy Assistance Program (CEAP) to help qualified customers with their electric bills. Call the D.C. Energy Office at (202) 724-2100. **** Pepco has filed its 1992 Productivity Improvement Plan with the D.C. Public Service Commission. For more information or to obtain a copy, call 202/833-7500, or visit our Customer Service Center at 1900 Pennsylvania Avenue, N.W.



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7300

AMOUNT PAID

12339

Pepco's Taxpayer Identification No. 53-0127880

TYPE OF BILL Actual Reading

Winter Rates In Effect

SERVICE ADDRESS 14TH & ELDER STS NW

H 20 WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Feb 18, 1993 42016.91
Due After Feb 18 42437.08

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

802511240120000000000042437080218930042016910000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ► 0251124012	20	TYPE OF BILL Actual Reading
SERVICE ADDRESS 14TH & ELDER STS NW	SERVICE PERIOD Dec 23 to Jan 28, 1993	Winter Rates In Effect

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND	DESCRIPTION	AMOUNT
N965	1000	8746	9218	472000	Kilowatt Hour Meter	
N964	1000	8909	9388	479000	Kilowatt Hour Meter	
				507884	Off-Pk \$.030319/KWH	15399.04
				218510	Interm \$.039900/KWH	8718.55
				226248	On-Pk \$.046281/KWH	10471.20
Total KWH Billed				952642	Non-Residential-GT 3A	
*Maximum Demand				1746.4	Distribution Charge	11351.60
*On-Peak Demand				1746.4	Production & Transm	.00

Discount 2297.02CR
Fuel Cost Adjustment at \$.00312550- per KWH 2977.48CR
DC Gross Receipts Adjustment 1351.02
NET CURRENT BILL 42016.91

Prior Bill Amount 40033.87
Payments Through Jan 28 40033.87CR

PLEASE PAY THE AMOUNT NOW DUE 42016.91

After Feb 18, 1993, a Late Payment Charge of \$420.17 will be added, increasing the amount due to \$42437.08.

Thank you for being a prompt paying customer.

Winter rates are in effect now through the billing month of May. Even though winter rates are lower than those in summer, always remember to use energy wisely.



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

1879

Potomac's Taxpayer Identification No. 63-0127880

Edited Reading
SERVICE ADDRESS 14TH & ELDER STS NW

Winter Rates In Effect

MAR 5 1993

ADMIN OFFICE, DEH

H 20 WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Mar 19, 1993 38246.45
Due After Mar 19 38628.91

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

6025112401200000000000038628910319930038246450000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251124012

20

SERVICE ADDRESS 14TH & ELDER STS NW

Edited Reading

Winter Rates In Effect

Mar 26 to Feb 24 1993

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	9218	9626	408000	Kilowatt Hour Meter	
N964	1000	9388	9790	402000	Kilowatt Hour Meter	
				401289	Off-Pk \$.030319/KWH	12167.08
				198870	Interm \$.039899/KWH	7934.91
				210207	On-Pk \$.046288/KWH	9730.26
Total KWH Billed				810366	Non-Residential-GT 3A	
*Maximum Demand				1770.6	Distribution Charge	11508.90
*On-Peak Demand				1770.6	Production & Transm	.00
Discount						2067.06CF
Fuel Cost Adjustment at \$.00278570- per KWH						2257.43CF
DC Gross Receipts Adjustment						1229.79
NET CURRENT BILL						38246.45
Prior Bill Amount						42016.91
Payments Through Feb 26						42016.91CF

PLEASE PAY THE AMOUNT NOW DUE 38246.45

After Mar 19, 1993, a Late Payment Charge of \$382.46 will be added, increasing the amount due to \$38628.91.

Are you finding it difficult to pay your electric bill? See the February issue of Lines for Pepco programs which can make paying your electric bill easier and more convenient. Or call us at (202) 833-7500 anytime and speak to one of our customer service representatives. They also can refer you to energy assistance programs in your area that provide financial assistance for qualified customers. And while you're talking with us, ask about Pepco's money-saving Powerwatchers options.

The scheduled meter read date for your next bill is Mar 24, 1993.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



Potomac Electric Power Company

AMOUNT PAID

P.O. Box 2812, Washington, DC 20067-2812
Telephone (202) 833-7500

1867

Edited Reading

Winter Rates In Effect

SERVICE ADDRESS 14TH & ELDER STS NW

H WALTER REED ARMY MED CTR Due Apr 20, 1993 40249.37
20 FACILITIES ENGR DIV Due After Apr 20 40651.86
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

2025112401200000000000040651860420930040249370000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

▶ 0251124012		20	TYPE OF BILL Edited Reading
SERVICE ADDRESS 14TH & ELDER STS NW		SERVICE PERIOD	Winter Rates In Effect Feb 24 to Mar 26, 1993 30

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	9626 59	433000	Kilowatt Hour Meter	
N964	1000	9790 214	424000	Kilowatt Hour Meter	
			393564	Off-Pk \$.030319/KWH	11932.86
			225604	Interm \$.039900/KWH	9001.60
			237855	On-Pk \$.046277/KWH	11007.32
		Total KWH Billed	857023	Non-Residential-GT 3A	
		*Maximum Demand	1770.6	Distribution Charge	11508.90
		*On-Peak Demand	1770.6	Production & Transm	.00
				Discount	2172.540
				Fuel Cost Adjustment at \$.00271050- per KWH	2322.970
				DC Gross Receipts Adjustment	1294.20
				NET CURRENT BILL	40249.37
				Prior Bill Amount	38246.45
				Payments Through Mar 30	38246.450

PLEASE PAY THE AMOUNT NOW DUE 40249.37

After Apr 20, 1993, a Late Payment Charge of \$402.49 will be added, increasing the amount due to \$40651.86.

Take a look at this month's issue of Lines and meet some of your neighbors who are Powerwatching with Pepco. Learn how you can save big money and energy without sacrificing comfort and convenience.

The scheduled meter read date for your next bill is Apr 22, 1993

pepco**Potomac Electric Power Company**P.O. Box 2312 Washington DC 20007-2312
Telephone (202) 833-7500

AMOUNT PAID

1773

Pepco's Taxpayer Identification No. 83-0427780

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Edited Reading

Winter Rates In Effect

14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012Due May 19, 1993 35506.21
Due After May 19 35861.27Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

602511240120000000000035861270519930035506210000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

0251124012

20

METER NO. LAST DIGIT	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	59	401	342000	Kilowatt Hour Meter	
N964	1000	214	628	414000	Kilowatt Hour Meter	
				379069	Off-Pk \$.030319/KWH	11493.37
				184679	Interm \$.039899/KWH	7368.69
				192444	On-PK \$.046298/KWH	8909.79
Total KWH Billed				756192	Non-Residential-GT 3A	
*Maximum Demand				1540.2	Distribution Charge	10011.30
*On-Peak Demand				1540.2	Production & Transm	.00
Discount						1889.15CR
Fuel Cost Adjustment at \$.00202260- per KWH						1529.47CR
DC Gross Receipts Adjustment						1141.68
NET CURRENT BILL						35506.21

Prior Bill Amount 40249.37
Payments Through Apr 28 40249.37CR

PLEASE PAY THE AMOUNT NOW DUE 35506.21

After May 19, 1993, a Late Payment Charge of \$355.06 will be added, increasing the amount due to \$35861.27.

Before replacing your hot water heater, call Pepco at (202) 833-7500 for information on high-efficiency electric water heaters.

The scheduled meter read date for your next bill is May 21, 1993.



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

191194.38

611

Pepco's Taxpayer Identification No. 53-0127380

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading

Summer Rates In Effect

14TH & ELDER STS NW

H
01

WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Jul 23, 1993 191194.38
Due After Jul 23 191194.38

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

302511240120000000000191194380723930191194380000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ► 0251124012



Actual Reading

Summer Rates In Effect

APR 26 to JUN 24 1993 54

SERVICE ADDRESS 14TH & ELDER STS NW

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	401	1650	1249000	Kilowatt Hour Meter	
N964	1000	628	628	0	Meter Exchange	
N964	1000	628	2007	1379000	Kilowatt Hour Meter	
F-PK	1	79069	0	0	Meter Exchange	
D 11	10	0	10235	1230027	Off-Pk \$.028219/KWH	34711.36
TERM	1	84679	0	0	Meter Exchange	
D 08	10	0	55622	679551	Interm \$.040670/KWH	27637.34
N-PK	1	92444	0	0	Meter Exchange	
D 05	10	0	57970	718459	On-Pk \$.055877/KWH	40145.98
Total KWH Billed				2628037	Non-Residential-GT 3A	
*Maximum Demand				5471.3	Distribution Charge	35563.45
*On-Peak Demand				5471.3	Production & Transm	56901.52

Discount 9747.98CR
Avg. Fuel Cost Adjustment at \$.00006280- per KWH 165.02CR
DC Gross Receipts Adjustment 6147.73
NET CURRENT BILL 191194.38

PLEASE PAY THE AMOUNT NOW DUE 191194.38

Remember, summer billing rates are in effect through October--
use energy wisely. To save energy and money on your electric
bill, call Pepco Powerwatchers at (202) 833-7500.

The scheduled meter read date for your next bill is Jul 26, 1993.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

61

Pepco's Taxpayer Identification No. 53-0117330

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading

Summer Rates In Effect

14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Aug 30, 1993 118709.88
Due After Aug 30 118709.88

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

3025112401200000000000118709880830930118709880000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ► 0251124012

TYPE OF BILL Actual Reading
Summer Rates In Effect
SERVICE PERIOD Jun 24 to Jul 26 1993 32 DAYS

SERVICE ADDRESS 14TH & ELDER STS NW

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	1650 2408	758000	Kilowatt Hour Meter	
N964	1000	2007 3018	1011000	Kilowatt Hour Meter	
D 11	10	10235 4174	939390	Off-Pk \$.028220/KWH	26509.59
D 08	10	55622 96126	405040	Interm \$.040670/KWH	16472.98
D 05	10	57970 466	424960	On-Pk \$.055868/KWH	23742.07
Total KWH Billed			1769390	Non-Residential-GT 3A	
*Maximum Demand			3075.0	Distribution Charge	19987.50
*On-Peak Demand			3075.0	Production & Transm	31980.00

Discount 5934.60C
Fuel Cost Adjustment at \$.00120680 per KWH 2135.30
DC Gross Receipts Adjustment 3817.04
NET CURRENT BILL 118709.88

Prior Bill Amount 191194.38
Payments Through Aug 6 191194.38C

PLEASE PAY THE AMOUNT NOW DUE 118709.88

Pepco has a number of Powerwatchers options to help residential and commercial customers save energy and money. For information on how you can become a Pepco Powerwatcher, call (202) 833-7500.

The scheduled meter read date for your next bill is Aug 24, 1993



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

597

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF BILL: Actual Reading Summer Rates In Effect
SERVICE ADDRESS: 14TH & ELDER STS NW

H WALTER REED ARMY MED CTR Due Sep 22, 1993 112834.50
01 FACILITIES ENGR DIV Due After Sep 22 112834.50
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

902511240120000000000112834500922930112834500000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ► 0251124012

01

SERVICE ADDRESS: 14TH & ELDER STS NW

TYPE OF BILL: Actual Reading Summer Rates In Effect
SERVICE PERIOD: Jul 26 to Aug 29, 1993 29 DAYS

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	2408 3110	702000	Kilowatt Hour Meter	
N964	1000	3018 3944	926000	Kilowatt Hour Meter	
D 11	10	4174 81603	774290	Off-Pk \$.028219/KWH	21850.46
D 08	10	96126 37951	418250	Interm \$.040670/KWH	17010.23
D 05	10	466 44037	435710	On-Pk \$.055867/KWH	24342.13
Total KWH Billed		1628250	Non-Residential-GT 3A		
*Maximum Demand		2946.4	Distribution Charge		19151.60
*On-Peak Demand		2935.7	Production & Transm		30531.28
Discount					5644.28Cf
Avg. Fuel Cost Adjustment at \$.00120680 per KWH					1964.96
DC Gross Receipts Adjustment					3628.12
NET CURRENT BILL					112834.50

Prior Bill Amount 118709.88
Payments Through Aug 31 118709.88Cf

PLEASE PAY THE AMOUNT NOW DUE 112834.50

Looking for ways to hold the line on business expenses? Pepco is helping a lot of businesses tighten their belts these days. Our Powerwatchers programs pay cash rebates for energy efficient improvements that trim the fat out of your energy consumption. Whether you run a new or old business, big or small, Pepco can give you cash now so you can enjoy the savings later. Call Commercial Energy Services at (202) 872-4630 to learn more.

The scheduled meter read date for your next bill is Sep 24, 1993.

**Potomac Electric Power Company**

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

829

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF

Actual Reading

Summer Rates In Effect

BILL

SERVICE
ADDRESS

14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012-0000

Due Oct 27, 1993 114236.09
Due After Oct 27 114236.09

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

5025112401200000000000114236091027930114236090000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251124012

01

TYPE OF
BILL

Actual Reading

Summer Rates In Effect

SERVICE
ADDRESS

14TH & ELDER STS NW

SERVICE
PERIOD

Aug 24 to Sep 24 1993 31 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	3110 3788	678000	Kilowatt Hour Meter	
N964	1000	3944 4847	903000	Kilowatt Hour Meter	
D 11	10	81603 61438	798350	Off-Pk \$.028220/KWH	22529.44
D 08	10	37951 76507	385560	Interm \$.040670/KWH	15680.73
D 05	10	44037 83812	397750	On-Pk \$.055872/KWH	22223.21
Total KWH Billed			1581660	Non-Residential-GT 3A	
*Maximum Demand			2997.4	Distribution Charge	19483.10
*On-Peak Demand			2997.4	Production & Transm	31172.96
Discount					5554.48C
Fuel Cost Adjustment at \$.00317890 per KWH					5027.94
DC Gross Receipts Adjustment					3673.19
NET CURRENT BILL					114236.09

Prior Bill Amount 112834.50
Payments Through Oct 5 112834.50C

PLEASE PAY THE AMOUNT NOW DUE 114236.09

Good News! Your new Save & Save Again coupons, worth more than \$240 in savings on energy-efficient lighting and other conservation products, will be mailed in October. And, The Washington Post will contain a special circular on Sunday, October 24, featuring store locations where you can purchase the coupon products. So watch your mail and the Post this month, and save and save and save! Questions? Call (202) 457-SAVE.

The scheduled meter read date for your next bill is Oct 25, 1993



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

59

Potomac Taxpayer Identification No. 63-0107880

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS 14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Nov 22, 1993 62697.74
Due After Nov 22 63324.72

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

2025112401200000000000063324721122930062697740000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251124012

01

TYPE OF
BILL

Actual Reading
Winter Rates In Effect

SERVICE
PERIOD

Sep 24 to Oct 25 1993 31 DAYS

SERVICE ADDRESS 14TH & ELDER STS NW

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	3788	4297	509000	Kilowatt Hour Meter	
N964	1000	4847	5550	703000	Kilowatt Hour Meter	
D 11	10	61438	21189	578850	Off-Pk \$.030319/KWH	17550.73
D 08	10	76507	6662	306030	Interm \$.039900/KWH	12210.60
D 05	10	83812	15993	327120	On-Pk \$.046253/KWH	15130.47
Total KWH Billed				1212000	Non-Residential-GT 3A	
*Maximum Demand				2654.5	Distribution Charge	17254.25
*On-Peak Demand				2622.3	Production & Transm	.00

Discount 3107.30CR
Fuel Cost Adjustment at \$.00135560 per KWH 1642.98
DC Gross Receipts Adjustment 2016.01
NET CURRENT BILL 62697.74

Prior Bill Amount 114236.09
Payments Through Oct 29 114236.09CR

PLEASE PAY THE AMOUNT NOW DUE 62697.74

After Nov 22, 1993, a Late Payment Charge of \$626.98 will be added, increasing the amount due to \$63324.72.

Don't forget to redeem those Save & Save Again coupons you received last month from Pepco. They offer big dollar savings on energy-efficient lighting and water heater conservation products at more than 200 retail locations. If you haven't received your coupons, call 202-457-S-A-V-E. Coupons expire January 31, 1994. ** Winter rates are in effect now through the billing month of May 1994. Even though winter rates are lower than those in summer, always remember to use energy wisely.

The scheduled meter read date for your next bill is Nov 23, 1993.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

59

Process To cover Identification No. 63-0127333-

TYPE OF

Actual Reading

Winter Rates In Effect

BY

SERVICE
ADDRESS

14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Dec 27, 1993 49596.79
Due After Dec 27 50095.89

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

802511240120000626980050095891227930049596790000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

0251124012

01

TYPE OF

Actual Reading

BY

Winter Rates In Effect

SERVICE
ADDRESS

14TH & ELDER STS NW

SERVICE
PERIOD

Oct 25 to Nov 23 1993 29

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	4297	4808	511000	Kilowatt Hour Meter	
N964	1000	5550	6097	547000	Kilowatt Hour Meter	
D 11	10	21189	46039	248500	Meter Exchange	
D 11	100	0	2902	290200	Off-Pk \$.030319/KWH	16333.38
D 08	10	6662	19626	129640	Meter Exchange	
D 08	100	0	1216	121600	Interm \$.039900/KWH	10024.48
D 05	10	15993	29364	133710	Meter Exchange	
D 05	100	0	1266	126600	On-Pk \$.046269/KWH	12044.52
Total KWH Billed				1050250	Non-Residential-GT 3A	
*Maximum Demand				2102.0	Distribution Charge	13663.00
*On-Peak Demand				2185.7	Production & Transm	.00

Discount 2603.27
Fuel Cost Adjustment at \$.00196800- per KWH 2066.89
DC Gross Receipts Adjustment 1574.59
NET CURRENT BILL 48969.81

Prior Bill Amount 62697.74
Payments Through Dec 6 62697.74
Late Payment Charge 626.98
TOTAL BALANCE FORWARD 626.98

PLEASE PAY THE AMOUNT NOW DUE 49596.79

After Dec 27, 1993, a Late Payment Charge of \$499.10 will be added, increasing the amount due to \$50095.89.

Pepco wants to reward you for getting rid of your old energy-guzzling appliances. Take advantage of Pepco's Appliance Pick-Up Program by calling 1-800-487-1010, to make an appointment for us to pick up an old refrigerator, freezer or window air conditioner in working condition. We'll give you a \$35 check or credit your electric bill for each appliance up to six, (but no more than two of any type). Let us help you save energy and money. Call today!

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Page 1 of 2

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



Potomac Electric Power Company

AMOUNT PAID

P.O. Box 2812, Washington, DC 20067-2812
Telephone (202) 833-7500

69

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS 14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012-0000

Due Feb 2, 1994 44822.48
Due After Feb 2 45273.20

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO ON YOUR REMITTANCE

102511240120000499100045273200202940044822480000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO 0251124012

TYPE OF BILL

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS

14TH & ELDER STS NW

SERVICE PERIOD

Nov 23 to Dec 28 1993 35 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	4808	5272	464000	Kilowatt Hour Meter	
N964	1000	6097	6611	514000	Kilowatt Hour Meter	
D 11	100	2902	7808	490600	Off-Pk \$.030319/KWH	14874.99
D 08	100	1216	3633	241700	Interm \$.039900/KWH	9643.83
D 05	100	1266	3753	248700	On-Pk \$.046273/KWH	11508.25
Total KWH Billed				981000	Non-Residential-GT 3A	
*Maximum Demand				169.6	Distribution Charge	11024.00
*On-Peak Demand				166.6	Production & Transm	.00

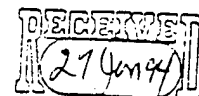
Discount 2352.55CR
Fuel Cost Adjustment at \$.00183520- per KWH 1800.33CR
DC Gross Receipts Adjustment 1425.19
NET CURRENT BILL 44323.38

Prior Bill Amount 112294.53
Payments Through Jan 12 112294.53CR
Late Payment Charge 499.10
TOTAL BALANCE FORWARD 499.10

PLEASE PAY THE AMOUNT NOW DUE 44822.48

After Feb 2, 1994, a Late Payment Charge of \$450.72 will be added, increasing the amount due to \$45273.20.

You still have time to redeem those Save & Save Again coupons you received in the mail from Pepco. Coupons can be redeemed until January 31, 1994, at over 200 locations for big dollar savings on energy-efficient lighting and water heater conservation products. For more information, call 202-457-SAVE.



The scheduled meter read date for your next bill is Jan 27, 1994

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

9860

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS 14TH & ELDER STS NW

WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Feb 22, 1994 87724.91
Due After Feb 22 88826.27

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

902511240120044822480088826270222940087724910000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

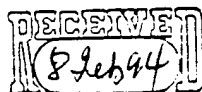
0251124012

SERVICE ADDRESS 14TH & ELDER STS NW

TYPE OF BILL Actual Reading
Winter Rates In Effect
SERVICE PERIOD Dec 28 to Jan 27, 1994 30 days

METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	5272 5684	412000	Kilowatt Hour Meter	
N964	1000	6611 7023	412000	Kilowatt Hour Meter	
D 11	100	7808 11791	398300	Off-Pk \$.030320/KWH	12076.46
D 08	100	3633 5718	208500	Interm \$.039900/KWH	8319.15
D 05	100	3753 5944	219100	On-Pk \$.046284/KWH	10141.03
Total KWH Billed			825900	Non-Residential-GT 3A	
*Maximum Demand			1730.0	Distribution Charge	11245.00
*On-Peak Demand			1712.0	Production & Transm	.00

Discount 2089.08CR
Fuel Cost Adjustment at \$.00221620 per KWH 1830.36
DC Gross Receipts Adjustment 1379.51
NET CURRENT BILL 42902.43



Prior Bill Amount 94419.27
Payments Through Feb 1 49596.79CR
TOTAL BALANCE FORWARD 44822.48

PLEASE PAY THE AMOUNT NOW DUE 87724.91

After Feb 22, 1994, a Late Payment Charge of \$1101.36 will be added, increasing the amount due to \$88826.27.

See the February issue of LINES for information about Pepco's High-Efficiency Water Heater Program and how you can receive a \$125 cash rebate on the purchase of a qualifying high-efficiency electric water heater. You'll save money on the initial cost and also on your electric bill year after year.

The scheduled meter read date for your next bill is Feb 25, 1994.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Feb 93	34	952642	28018.9	
Feb 94	30	825900	27530.0	1.7-

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



Potomac Electric Power Company

AMOUNT PAID

P.O. Box 2812, Washington, DC 20007-2812

Telephone (202) 833-7500

202-457-SAVE for more information

9963

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS

14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Mar 22, 1994 43098.40
Due After Mar 22 43529.38

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO

5025112401200000000000043529380322940043098400000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251124012

TYPE OF BILL

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS

14TH & ELDER STS NW

SERVICE PERIOD

Jan 27 to Feb 25, 1994 29 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	5684	6105	421000	Kilowatt Hour Meter	
N964	1000	7023	7444	421000	Kilowatt Hour Meter	
D 11	100	11791	15871	408000	Off-Pk \$.030320/KWH	12370.56
D 08	100	5718	7842	212400	Interm \$.039900/KWH	8474.76
D 05	100	5944	8175	223100	On-Pk \$.046283/KWH	10325.79
Total KWH Billed				843500	Non-Residential-GT 3A	
*Maximum Demand				1752.0	Distribution Charge	11388.00
*On-Peak Demand				1722.0	Production & Transm	.00
Discount						2127.96CR
Fuel Cost Adjustment at \$.00151920 per KWH						1281.44
DC Gross Receipts Adjustment						1385.81
NET CURRENT BILL						43098.40
Prior Bill Amount						87724.91
Payments Through Mar 1						87724.91CR

PLEASE PAY THE AMOUNT NOW DUE 43098.40

After Mar 22, 1994, a Late Payment Charge of \$430.98 will be added, increasing the amount due to \$43529.38.

Check your mail by April 22, for Save & Save Again coupons that offer big dollar savings on energy-efficient lighting and water heater conservation products. The coupons can be redeemed at more than 200 retail locations. Call 202-457-SAVE for more information.

The scheduled meter read date for your next bill is Mar 28, 1994.

SERVICE ADDRESS 14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
01--- FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Apr 21, 1994 45299.37
Due After Apr 21 45752.36

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

802511240120000000000045752360421940045299370000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

► 0251124012

01

TYPE OF
BILL

Actual Reading

Winter Rates In Effect

SERVICE
PERIOD

Feb 25 to Mar 28 1994 31 DAYS

SERVICE
ADDRESS

14TH & ELDER STS NW

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	6105	6557	452000	Kilowatt Hour Meter	
N964	1000	7444	7891	447000	Kilowatt Hour Meter	
D 11	100	15871	20285	441400	Off-Pk \$.030543/KWH	13482.12
D 08	100	7842	10098	225600	Interm \$.040195/KWH	9068.21
D 05	100	8175	10502	232700	On-Pk \$.046628/KWH	10850.35
Total KWH Billed				899700	Non-Residential-GT 3A	
*Maximum Demand				1728.0	Distribution Charge	11335.68
*On-Peak Demand				1728.0	Production & Transm	.00
Discount						2236.80CR
Avg. Fuel Cost Adjustment at \$.00149300 per KWH						1343.25
DC Gross Receipts Adjustment						1456.56
NET CURRENT BILL						45299.37
Prior Bill Amount						43098.40
Payments Through Apr 1						43098.40CR
PLEASE PAY -THE AMOUNT NOW DUE						45299.37

After Apr 21, 1994, a Late Payment Charge of \$452.99 will be added, increasing the amount due to \$45752.36.

Pepco Gatekeepers look out for the safety and well-being of senior customers. In the April issue of LINES, learn about the Gatekeeper program and how to participate. And, if you're a Pepco customer age 55 or more, find out how you can receive a free subscription to SENIORLINES, Pepco's special newsletter for senior citizens.

The scheduled meter read date for your next bill is Apr 26, 1994.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500

**Potomac Electric Power Company**P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

100-417

Pepco's Taxpayer Identification No. 53-01278801

TYPE OF
BILL
SERVICE
ADDRESS**Actual Reading****Winter Rates In Effect****14TH & ELDER STS NW**H
01 WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012Due May 23, 1994 48663.60
Due After May 23 49150.24Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

502511240120000000000049150240523940048663600000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. ▶

0251124012

METER NO. 14 THS	MULTI- PLIER	METER READING		KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
PREVIOUS		PRESENT				
N965	1000	6557	6981	424000	Kilowatt Hour Meter	
N964	1000	7891	8318	427000	Kilowatt Hour Meter	
D 11	100	20285	24205	392000	Off-Pk \$.031067/KWH	12178.36
D 08	100	10098	12350	225200	Interm \$.040827/KWH	9194.29
D 05	100	10502	12839	233700	On-Pk \$.047337/KWH	11062.87
Total KWH Billed				850900	Non-Residential-GT 3A	
*Maximum Demand				2129.0	Distribution Charge	14157.85
*On-Peak Demand				2129.0	Production & Transm	.00
Discount						2321.710
Fuel Cost Adjustment at \$.00332260 per KWH						2827.20
DC Gross Receipts Adjustment						1564.74
NET CURRENT BILL						48663.60

Prior Bill Amount 45299.37
Payments Through May 2 45299.370

PLEASE PAY THE AMOUNT NOW DUE 48663.60

After May 23, 1994, a Late Payment Charge of \$486.64 will be added, increasing the amount due to \$49150.24.

Summer rates (June - October) go into effect soon. Summer rates are higher than winter rates, reflecting higher costs to produce electricity, so energy conservation is even more important during the summer. One way to save energy is to use high-efficiency light bulbs and appliances. Look in your mail for Save & Save Again coupons for energy-efficient lighting and water heater conservation products. If you haven't received your coupons or want up to 10 additional coupons, call (202) 457-SAVE.

The scheduled meter read date for your next bill is May 25, 1994

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500

**Potomac Electric Power Company**

AMOUNT PAID

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Pepeco's Taxpayer Identification No. 53-0127880

59

TYPE OF

Actual Reading

Summer Rates In Effect

SERVICE
ADDRESS

14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Jun 22, 1994 78169.96
Due After Jun 22 78951.66

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

9025112401200000000000078951660622940078169960000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251124012

51

SERVICE
ADDRESS

14TH & ELDER STS NW

TYPE OF
BILL

Actual Reading

Summer Rates In Effect

SERVICE
PERIOD

Apr 26 to May 25 1994 29 DAYS

METER NO LAST DIGITS	MULTI- PLIER	METER READING		KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
		PREVIOUS	PRESENT			
N965	1000	6981	7408	427000	Kilowatt Hour Meter	
N964	1000	8318	8858	540000	Kilowatt Hour Meter	
D 11	100	24205	28756	455100	Off-Pk \$.028964/KWH	13181.83
D 08	100	12350	14847	249700	Interm \$.041664/KWH	10403.68
D 05	100	12839	15478	263900	On-Pk \$.057185/KWH	15091.13
Total KWH Billed				968700	Non-Residential-GT 3A	
*Maximum Demand				2186.0	Distribution Charge	14536.90
*On-Peak Demand				2186.0	Production & Transm	23171.60
Discount						3808.37Cf
Fuel Cost Adjustment at \$.00317920 per KWH						3079.69
DC Gross Receipts Adjustment						2513.50
NET CURRENT BILL						78169.96
Prior Bill Amount						48663.60
Payments Through Jun 1						48663.60Cf

PLEASE PAY THE AMOUNT NOW DUE 78169.96

After Jun 22, 1994, a Late Payment Charge of \$781.70 will be added, increasing the amount due to \$78951.66.

Consider installing a ceiling fan to help you save money and energy this summer. Read all about it in the June issue of LINES. And check out our tips on how you can prepare for possible power outages during the summer storm season.

The scheduled meter read date for your next bill is Jun 24, 1994

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

PRINTED ON RECYCLED PAPER

Potomac Electric Power Company

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83

Actual Reading

Summer Rates In Effect

SERVICE
ADDRESS

14TH & ELDER STS NW

H
01 WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Aug 8, 1994 124162.77
Due After Aug 8 125404.40

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ►

702511240120000000000125404400808940124162770000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO ► 0251124012

01

TYPE OF
BILL

Actual Reading

Summer Rates In Effect

SERVICE
PERIOD

May 25 to Jun 27 1994 33 DAYS

SERVICE
ADDRESS

14TH & ELDER STS NW

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	7408	8144	736000	Kilowatt Hour Meter	
N964	1000	8858	9755	897000	Kilowatt Hour Meter	
D 11	100	28756	37124	836800	Off-Pk \$.029146/KWH	24389.54
D 08	100	14847	18686	383900	Interm \$.041882/KWH	16078.84
D 05	100	15478	19535	405700	On-Pk \$.057426/KWH	23297.99
Total KWH Billed				1626400	Non-Residential-GT 3A	
*Maximum Demand				3303.0	Distribution Charge	22086.06
*On-Peak Demand				3303.0	Production & Transm	35132.91

Discount 6024.57CR
Fuel Cost Adjustment at \$.00295770 per KWH 4810.40
DC Gross Receipts Adjustment 4391.60
NET CURRENT BILL 124162.77

Prior Bill Amount 78169.96
Payments Through Jul 15 78169.96CR

PLEASE PAY THE AMOUNT NOW DUE 124162.77

After Aug 8, 1994, a Late Payment Charge of \$1241.63 will be added, increasing the amount due to \$125404.40.

Information from the American Red Cross states that if you are caught in a storm, rather than lying down, squat low to the ground, making yourself the smallest possible target for lightning.

The scheduled meter read date for your next bill is Jul 26, 1994.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

*IF APPLICABLE

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Potomac Electric Power Company

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500

pepco

59

Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Epicos Taxpayer Identification No. 53-0127390

AMOUNT PAID

128841 32

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading

14TH & ELDER STS NW

Reminder Notice

Summer Rates In Effect

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012Due Aug 30, 1994 253004.09
Due After Aug 30 256154.94Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

602511240120124162770256154940830940253004090000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251124012

01

SERVICE ADDRESS 14TH & ELDER STS NW

Actual Reading

Summer Rates In Effect

SERVICE PERIOD Jun 27 to Jul 27

31
DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	8144	8894	750000	Kilowatt Hour Meter	
N964	1000	9755	778	1023000	Kilowatt Hour Meter	
D 11	100	37124	45910	878600	Off-Pk \$.029195/KWH	25651.32
D 08	100	18686	23108	442200	Interm \$.041945/KWH	18548.38
D 05	100	19535	24144	460900	On-Pk \$.057501/KWH	26502.62
Total KWH Billed				1781700	Non-Residential-GT 3A	
*Maximum Demand				3128.0	Distribution Charge	20957.60
*On-Peak Demand				3128.0	Production & Transm	33313.20

Discount 6220.54CF

Fuel Cost Adjustment at \$.00310470 per KWH 5531.65

DC Gross Receipts Adjustment 4557.09

NET CURRENT BILL 128841.32

Prior Bill Amount 124162.77

TOTAL BALANCE FORWARD 124162.77

PLEASE PAY THE AMOUNT NOW DUE 253004.09

After Aug 30, 1994, a Late Payment Charge of \$3150.85 will be added, increasing the amount due to \$256154.94.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Aug 24, 1994

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

Potomac Electric Power Company

*IF APPLICABLE

PRINTED ON RECYCLED PAPER

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



63

Actual Reading

Reminder Notice

SERVICE ADDRESS 14TH & ELDER STS NW

Summer Rates In Effect

H WALTER REED ARMY MED CTR
01 FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Oct 3, 1994 248500.
Due After Oct 3 248500.

Payment may be made
payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

50251124012013012973024850023100394024850023000025112401

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251124012

01

SERVICE ADDRESS 14TH & ELDER STS NW

TYPE OF BILL

Actual Reading
Summer Rates In Effect
Jul 28 to Aug 24 1994

SERVICE PERIOD

METER NO. LAST DIGITS	MULTI- PLIER	METER READING		KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
		PREVIOUS	PRESENT			
N965	1000	8894	9726	832000	Kilowatt Hour Meter	
N964	1000	778	1440	662000	Kilowatt Hour Meter	
D 11	100	45910	53491	758100	Off-Pk \$.029195/KWH	22133.
D 08	100	23108	26795	368700	Interm \$.041945/KWH	15465.
D 05	100	24144	28032	388800	On-Pk \$.057510/KWH	22360.
Total KWH Billed				1515600	Non-Residential-GT 3A	
*Maximum Demand				2974.0	Distribution Charge	19925.
*On-Peak Demand				2974.0	Production & Transm	31673.

Discount 5553.

Fuel Cost Adjustment at \$.00539730 per KWH 8180.

DC Gross Receipts Adjustment 4186.

NET CURRENT BILL 118370.

Prior Bill Amount 253004.

Payments Through Sep 9 124162.

Late Payment Charge 1288.

TOTAL BALANCE FORWARD 130129.

PLEASE PAY THE AMOUNT NOW DUE 248500.

Just a reminder that a past due amount remained on your account
at the time we prepared your bill.

The scheduled meter read date for your next bill is Sep 26, 1



Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812
Telephone (202) 833-7500

AMOUNT PAID

117927.11

853

(Pepco's Taxpayer Identification No. 53-0127880)

TYPE OF
BILL
SERVICE
ADDRESS

Actual Reading

Reminder Notice

Summer Rates In Effect

14TH & ELDER STS NW

H
01
WALTER REED ARMY MED CTR
FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Oct 26, 1994 237586.02
Due After Oct 26 240560.17

Payment may be made
payable to **pepco**

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

102511240120119658910240560171026940237586020000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

SERVICE
ADDRESS

14TH & ELDER STS NW

TYPE OF
BILL
SERVICE
PERIOD

Actual Reading

Summer Rates In Effect

Aug 24 to Sep 26 1994 33 DAYS

METER NO. LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS	METER READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	9726	661	935000	Kilowatt Hour Meter	
N964	1000	1440	2154	714000	Kilowatt Hour Meter	
D 11	100	53491	61890	839900	Off-Pk \$.029286/KWH	24598.04
D 08	100	26795	30713	391800	Interm \$.042036/KWH	16470.04
D 05	100	28032	32044	401200	On-Pk \$.057599/KWH	23109.11
Total KWH Billed					1632900 Non-Residential-GT 3A	
*Maximum Demand					2844.0 Distribution Charge	19054.80
*On-Peak Demand					2844.0 Production & Transm	30288.60

Discount 5642.81CR
Fuel Cost Adjustment at \$.00359990 per KWH 5878.28
DC Gross Receipts Adjustment 4171.05
NET CURRENT BILL 117927.11

Prior Bill Amount 248500.23
Payments Through Oct 5 128841.32CR
TOTAL BALANCE FORWARD 119658.91

PLEASE PAY THE AMOUNT NOW DUE 237586.02

After Oct 26, 1994, a Late Payment Charge of \$2974.15 will be added, increasing the amount due to \$240560.17.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Oct 25, 1994.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

Potomac Electric Power Company

*IF APPLICABLE

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500

customer on-peak
clean up
on-peak
off-peak
intermediate
0.006425
clean up
on-peak
Energy
demand
3.8%

87L-3283

ATTACHMENT E

Equipment Data Sheets and Vendor Information

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name Chiller Water Plant, Building #48

Tag No. C-48-1

Equipment Name Chiller #1 No. of Units 1

Location West End of Building Year 1974

Manufacturer York Hermetic Turbo Pak

Model No. HT-T2-G2-GC-A

Serial No. DM-011021

Capacity 1,250 Tons, R-500 Refrigerant, 3,300 GPM CHW Flow

Electrical Characteristics:

Voltage 4160-3-60 Manufacturer/Frame _____
Horsepower _____ Service Factor _____
RPM _____ Full load amps 151

Facility Name Chilled Water Plant, Building #48

Tag No. C-48-2

Equipment Name Chiller #2 No. of Units 1

Location East of Chiller #1 Year 1974

Manufacturer York Hermetic Turbopak

Model No. HT-T2-G2-GC-A

Serial No. DM-011022

Capacity 1,250 Tons, R-500 Refrigerant, 3,300 GPM CHW Flow

Electrical Characteristics:

Voltage 4160-3-60 Manufacturer/Frame _____
Horsepower 1,250 Service Factor _____
RPM 3,550 Full load amps 130

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name Chilled Water Plant, Building #48

Tag No. C-48-3

Equipment Name Chiller #3 No. of Units 1

Location East of Chiller #2 Year 1994

Manufacturer Trane

Model No. CVHF-1280

Serial No. CVHF-128NAG003HZ304EH1EES1C0000000TA

Capacity 1,280 Tons, R-123 Refrigerant, 3,300 GPM CHW Flow

Electrical Characteristics:

Voltage	<u>4160-3-60</u>	Manufacturer/Frame	<u></u>
Horsepower	<u>1,250</u>	Service Factor	<u></u>
RPM	<u>3,550</u>	Full load amps	<u>130</u>

Facility Name Chilled Water Plant, Building, #48

Tag No. C-48-4

Equipment Name Chiller #4 No. of Units 1

Location East of Chiller #3 Year 1958

Manufacturer Carrier

Model No. 19C7H5-21-21

Serial No. 4453

Capacity 1,100 Tons, R-11 Refrigerant, 1,800 GPM CHW Flow

Electrical Characteristics:

Voltage	<u>4160-3-60</u>	Manufacturer/Frame	<u></u>
Horsepower	<u>1,250</u>	Service Factor	<u></u>
RPM	<u>3,555</u>	Full load amps	<u>130</u>

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name	<u>Chilled Water Plant, Building #48</u>		
Tag No.	<u>C-48-5</u>		
Equipment Name	<u>Chiller #5</u>	No. of Units	<u>1</u>
Location	<u>East of Chiller #4</u>	Year	<u>1958</u>
Manufacturer	<u>Carrier</u>		
Model No.	<u>19C7H5-21-21</u>		
Serial No.	<u>4452</u>		
Capacity	<u>1,100 Tons, R-11 Refrigerant, 1,800 GPM CHW Flow</u>		

Electrical Characteristics:

Voltage	<u>4160-3-60</u>	Manufacturer/Frame	<u></u>
Horsepower	<u>1,250</u>	Service Factor	<u></u>
RPM	<u>3,555</u>	Full load amps	<u>130</u>

Facility Name	<u>Chilled Water Plant, Building #48</u>		
Tag No.	<u>C-48-6</u>		
Equipment Name	<u>Chiller #6</u>	No. of Units	<u>1</u>
Location	<u>East of Chiller #5</u>	Year	<u>1958</u>
Manufacturer	<u>Carrier</u>		
Model No.	<u>19C7H5-21-21</u>		
Serial No.	<u>4451</u>		
Capacity	<u>1,100 Tons, R-11 Refrigerant, 1,800 GPM CHW Flow</u>		

Electrical Characteristics:

Voltage	<u>4160-3-60</u>	Manufacturer/Frame	<u></u>
Horsepower	<u>1,250</u>	Service Factor	<u></u>
RPM	<u>3,555</u>	Full load amps	<u>130</u>

Facility Name	<u>Chilled Water Plant, Building #48</u>	
Tag Nos.	<u>CHP-1, 2, & 3</u>	
Equipment Name	<u>Chilled Water Pumps #1, 2, & 3</u>	No. of Units <u>3</u>
Location	<u>Along South Wall</u>	Year _____
Manufacturer	<u>Weinman</u>	
Model No.	_____	
Serial No.	_____	
Capacity	<u>1,800 GPM</u>	

Voltage	460-3-60	Manufacturer/Frame	
Horsepower	125	Service Factor	
RPM	1,750	Full load amps	156

Facility Name	<u>Chilled Water Plant, Building #48</u>		
Tag Nos.	<u>CHP-4, 5, & 6</u>		
Equipment Name	<u>Chilled Water Pumps #4, 5, & 6</u>	No. of Units	<u>3</u>
Location	<u>Along South Wall</u>	Year	<u></u>
Manufacturer	<u>Fairbanks Morse</u>		
Model No.	<u></u>		
Serial No.	<u></u>		
Capacity	<u>3,300 GPM</u>		

Voltage	<i>440-3-60</i>	Manufacturer/Frame	
Horsepower	<i>100</i>	Service Factor	
RPM	<i>1,750</i>	Full load amps	<i>115</i>

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name Chiller Water Plant, Building #48

Tag Nos. CWP-1, 2, 3, 4, 5, & 6

Equipment Name Condenser Water Pumps No. of Units 6

Location In Cooling Tower Sumps Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity 3,300 GPM (#1, 2 & 3) - 3,750 GPM (#4, 5, & 6)

Electrical Characteristics:

Voltage	<u>460-3-60</u>	Manufacturer/Frame	_____
Horsepower	<u>125 (#1, 2, & 3)</u>	Service Factor	_____
Horsepower	<u>150 (#4, 5, & 6)</u>	Full load amps	_____

Facility Name Chilled Water Plant, Building #48

Tag Nos. CT-48-1, 2, 3, 4, 5, & 6

Equipment Name Cooling Towers No. of Units 6

Location South of Building #48 Year *

Manufacturer Ceramic Cooling Tower Company (BAC)

Model No. _____

Serial No. _____

Capacity 1,100 Tons each (#1, 2, & 3)
1,250 Tons each (#4, 5, & 6) Present Capacity 7,050 Tons

Electrical Characteristics:

Voltage	<u>460-3-60</u>	Manufacturer/Frame	_____
Horsepower	<u>50 (#1, 2, & 3)</u>	Service Factor	_____
Horsepower	<u>60 (#4, 5, & 6)</u>	Full load amps	_____

* Cell Units rebuilt installing fiberglass membranes and drift ELIMINATORS.

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name Chilled Water Plant, Building #48

Tag No. HX-48-1

Equipment Name Free Cooling Heat Exchanger No. of Units 1

Location South of Chiller #1 Year _____

Manufacturer Tranter Superchanger

Model No. HX-416-HP-428

Serial No. P25515H

Capacity Max. Wp - 150 psi. Max. Temp. 250°F, Surface Area 3,484.9 sf

Electrical Characteristics: None

Voltage _____ Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps _____

Facility Name Chilled Water Plant, Building #48

Tag Nos. P-48-1 & 2

Equipment Name CW Makeup System No. of Units 2

Location Between Chillers #2 & 3 Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity _____

Electrical Characteristics: _____

Voltage _____ Manufacturer/Frame _____

Horsepower * Service Factor _____

RPM _____ Full load amps _____

* 2 pumps @ 5 hp each and 2 air compressors @ 2 hp each.

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name Chilled Water Plant, Building #49

Tag No. C-49-1

Equipment Name Chiller No. of Units 1

Location Along Northwest Wall Year 1971

Manufacturer Trane Centrovac

Model No. CV-6H-G7H6

Serial No. LIE13904

Capacity 660 Tons, R-11 Refrigerant, 1,585 GPM CHW Flow, (525 kW)

Electrical Characteristics:

Voltage 4,000 Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps 90.7

Facility Name Chilled Water Plant, Building #49

Tag No. CHP-49-2

Equipment Name Chilled Water Pump No. of Units 1

Location Along Southwest Wall Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity 1,585 GPM

Electrical Characteristics:

Voltage 230/460-3-60 Manufacturer/Frame _____

Horsepower 75 Service Factor _____

RPM 1,775 Full load amps _____

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name Chilled Water Plant, Building #49

Tag No. CT-49-1

Equipment Name Cooling Tower No. of Units 1

Location Outside, Along Southwest Wall Year 1974

Manufacturer Baltimore Air Coil

Model No. VLT 650A BAC

Serial No. 748242

Capacity NOM. 650 Tons, 1,905 GPM Flow

Electrical Characteristics:

Voltage 230/460 Manufacturer/Frame _____

Horsepower 4 @ 15 Service Factor _____

RPM _____ Full load amps _____

Facility Name Chilled Water Plant, Building #49

Tag No. CP-49-6

Equipment Name Condenser Water Pump No. of Units 1

Location Along Southeast Wall Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity 1,980 GPM

Electrical Characteristics:

Voltage 230/460-3-60 Manufacturer/Frame _____

Horsepower 40 Service Factor _____

RPM 1,775 Full load amps _____

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name AFIP, Original Building #54

Tag Nos. C-54-1 & 2

Equipment Name Chiller No. of Units 2

Location Ref. Machine Room Year 1952

Manufacturer Carrier

Model No. 17M54(-8-8)

Serial No. 2332-2475/2323-2474

Capacity 600 Tons, R-11 Refrigerant

Electrical Characteristics:

Voltage	<u>2300-3-60</u>	Manufacturer/Frame	<u></u>
Horsepower	<u></u>	Service Factor	<u></u>
RPM	<u>1,775</u>	Full load amps	<u>130</u>

Facility Name AFIP, Original Building #54

Tag Nos. CHP-54-1, 2, & 3

Equipment Name Chilled Water Pumps #1, 2, & 3 No. of Units 3

Location Ref. Machine Room, West Wall Year

Manufacturer

Model No.

Serial No.

Capacity 960 GPM

Electrical Characteristics:

Voltage	<u>460-3-60</u>	Manufacturer/Frame	<u></u>
Horsepower	<u>40</u>	Service Factor	<u></u>
RPM	<u>1,760</u>	Full load amps	<u></u>

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name AFIP, Original Building #54

Tag Nos. _____

Equipment Name Cooling Tower No. of Units _____

Location _____ Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity _____

Electrical Characteristics:

Voltage _____ Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps _____

Facility Name AFIP, Original Building #54

Tag Nos. CWP-54-1, 2, & 3

Equipment Name Condenser Water Pumps #1, 2, & 3 No. of Units 3

Location Ref. Machine Room, West Wall Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity 1,200 GPM

Electrical Characteristics:

Voltage _____ Manufacturer/Frame _____

Horsepower 50 Service Factor _____

RPM 1,760 Full load amps _____

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name AFIP, Building #54 Addition

Tag No. C-54-3

Equipment Name Chiller No. of Units 1

Location Basement of Addition Year 1983

Manufacturer Trane

Model No. CVHE-080F-AD-2UB2551CA1C11CA1C000000042000

Serial No. L83J14435

Capacity 700 Tons, R-11 Refrigerant, 1,400 GPM CHW Flow (460 kW)

Electrical Characteristics:

Voltage 460-3-60 Manufacturer/Frame _____
Horsepower _____ Service Factor _____
RPM _____ Full load amps 639

Facility Name AFIP, Building #54 Addition

Tag No. CHP-54-4

Equipment Name Chilled Water Pump No. of Units 1

Location _____ Year _____

Manufacturer Allis Chalmers

Model No. Type 2000, Size 8 x 6 x 13

Serial No. _____

Capacity 1,400 GPM @ 145 FT HD, 12.0" Impeller Diameter

Electrical Characteristics:

Voltage 230/460-3-60 Manufacturer/Frame _____
Horsepower 75 Service Factor _____
RPM 1,775 Full load amps _____

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name AFIP, Building #54 Addition

Tag Nos. CHP-54-4 & 5

Equipment Name Chilled Water Pumps #4 & 5 No. of Units 2

Location _____ Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity _____

Electrical Characteristics:

Voltage _____ Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps _____

Facility Name AFIP, Building #54 Addition

Tag Nos. _____

Equipment Name Cooling Tower No. of Units _____

Location _____ Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity _____

Electrical Characteristics:

Voltage _____ Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps _____

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name AFIP, Building #54 Addition

Tag No. _____

Equipment Name Condenser Water Pump No. of Units 1

Location Basement of Addition Year 1991

Manufacturer Allis Chalmers

Model No. Type 2000, Size 8 x 6 x 13

Serial No. 52-026-599-11-91

Capacity 2,000 GPM, 13.00" Impeller Diameter

Electrical Characteristics:

Voltage 460 Manufacturer/Frame _____

Horsepower 100 Service Factor _____

RPM _____ Full load amps 119

Facility Name Computer Center, Building #T-2

Tag No. _____

Equipment Name Air-Cooled Chiller No. of Units 1

Location _____ Year _____

Manufacturer Carrier

Model No. 30 GB 175600

Serial No. _____

Capacity 175 Tons, R-22 Refrigerant

Electrical Characteristics:

Voltage 460-3-60 Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps 7 @ 52.1 & 12 @ 3.0

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name BRAC, Science Building #6

Tag No. DER Construction

Equipment Name Air-Cooled Chiller No. of Units 1

Location _____ Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity 200 Tons, 480 GPM, 54°F EWT, 44°F LWT

Electrical Characteristics:

Voltage	<u>460-3-60</u>	Manufacturer/Frame	_____
OK?---KW	<u>239.2</u>	Service Factor	_____
RPM	_____	Full load amps	_____

Facility Name BRAC, Science Building #6

Tag Nos. Under Construction

Equipment Name Chilled Water Pumps No. of Units 2

Location _____ Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity 240 GPM @ 85 FT HD

Electrical Characteristics:

Voltage	_____	Manufacturer/Frame	_____
Horsepower	<u>10</u>	Service Factor	_____
RPM	_____	Full load amps	_____

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name Outpatient Clinic, Building #7

Tag No. _____

Equipment Name Condensing Unit No. of Units 1

Location _____ Year _____

Manufacturer York

Model No. 42CA360A46B

Serial No. _____

Capacity ~~200~~ Tons, R-22 Refrigerant

Electrical Characteristics:

Voltage 460-3-60 Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps 57.7

Facility Name Outpatient Clinic, Building #7

Tag No. _____

Equipment Name Air-Cooled Chiller No. of Units 1

Location _____ Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity _____

Electrical Characteristics:

Voltage _____ Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps _____

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name DENTAL
Dental, Building #91

Tag No. _____

Equipment Name Condensing Unit No. of Units 1

Location On Grade Year _____

Manufacturer Bohn

Model No. RVB0465B

Serial No. _____

Capacity 4 Tons, R-22 Refrigerant

Electrical Characteristics:

Voltage 208-3-60 Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps 15.0

Facility Name DENTAL
Dental, Building #91

Tag No. _____

Equipment Name Condensing Unit No. of Units 1

Location Outside of Building, On Grade Year _____

Manufacturer Trane

Model No. RAUC C106B

Serial No. 1E085D06025

Capacity 10 Tons, R-22 Refrigerant

Electrical Characteristics:

Voltage 208-3-60 Manufacturer/Frame _____

Horsepower _____ Service Factor _____

RPM _____ Full load amps 2 @ 18.3 & 2 @ 5.0

**WALTER REED ARMY MEDICAL CENTER
EQUIPMENT DATA SHEET**

Facility Name DENTAC
~~Dental~~, Building #91

Tag No. _____

Equipment Name Condensing Unit No. of Units 1

Location Outside Building Year _____

Manufacturer York

Model No. H1CA480A25A

Serial No. YKLM129896

Capacity 40 Tons, R-22 Refrigerant

Electrical Characteristics:

Voltage	<u>208-3-60</u>	Manufacturer/Frame	_____
Horsepower	_____	Service Factor	_____
RPM	_____	Full load amps	<u>2 @ 80, 4 @ 4.2,</u> <u>& 2 @ 4.5</u>

Facility Name _____

Tag No. _____

Equipment Name _____ No. of Units _____

Location _____ Year _____

Manufacturer _____

Model No. _____

Serial No. _____

Capacity _____

Electrical Characteristics:

Voltage	_____	Manufacturer/Frame	_____
Horsepower	_____	Service Factor	_____
RPM	_____	Full Load amps	_____

**Baltimore Aircoil Company
Ceramic Cooling Tower Company**

**204 Appletree Dr.
Leesburg, VA 22075
(703) 777-3630 FAX (703) 771-8755**

**RECONSTRUCTION MARKETING GROUP
FACSIMILE TRANSMITTAL PAGE**



FAX # (610) 373-7537

DATE: January 26, 1995

COMPANY: Entech

ATTN: Mr. Dan Smith

FROM: Jeff Padrta, Reconstruction Manager - NE District

REFERENCE: Walter Reed Hospital - Washington, DC

8800TDS?

Mr. Smith:

In follow-up to our telecon this afternoon regarding Ceramic Cooling Tower Co. Jobs CT-514 & CT-1406 at above referenced, I would like to advise the following:

- Above installation consists of six cells each 28' long x 24' wide, air inlet on one side only, 20' diameter fans, and tile fill.
- Cells 1-3 have 50 hp fan motors and were sized for 3,300 gpm/cell, 95°-85°-78°
- Cell 4-6 have 60 hp fan motors and were sized for 3,750 gpm/cell, 95°-85°-78°
- In 1989 fiberglass wall membrane and drift eliminators were replaced in all six cells as well as fan rings regouted and vibration switches installed/relocated. Fan motors were also replaced at cell 4-6.
- To upgrade thermal performance in cells 1-3 to design conditions of cell 4-6, we could simply installed additional tile fill matching quantity as installed at cells 4-6 and change motors to 60 hp.
- To increase performance above 1,250 tons/cell, we would have to remove a portion of the tile fill and install several layers of high efficient PVC cellular fill. Along with this option distribution system would also have to be replaced with a low pressure system. With 60 hp fan motors, maximum gpm per cell would be 4,400 or 1,467 tons. Additional performance is limited by air inlet velocity due to inlets on one side only.

I hope the above information helps and if you should have additional questions, please advise me. I would also be pleased to meet at the jobsite to further discuss alternatives the next time you are in town.

Thank you for your interest and I look forward to working with you in further detail as this project is accomplished.

A handwritten signature in black ink, appearing to be 'J. Padrta', is written over a large, faint circular stamp.

TELEPHONE CONVERSATION RECORD

ENTECH ENGINEERING, INC.
500 PENN STREET, BOX 32
READING, PA 19603

ENTECH No.: 4130.02

DATE:

PHONE: (610) 373-6667
FAX: (610) 373-7537

PROJECT: WRAMC

CHILLED WATER STUDY

NAME

COMPANY

SALLY

BAC WASHINGTON AREA REP

JACK FISHER

ENTECH

ITEMS DISCUSSED:

COOLING TOWER FOR BLDG. 49
COUNTERFLOW W/CENTRIFUGAL FANS
(4) 15HP 230/460V CDP
1905 GPM @ ≈ 3 GPM/TON ≈ 635 TONS
BUILT 1974

cc:

TELEPHONE CONVERSATION RECORD

ENTECH ENGINEERING, INC.
500 PENN STREET, BOX 32
READING, PA 19603

ENTECH No.: 4130.02

DATE: 1-12-95

PHONE: (610) 373-6667
FAX: (610) 373-7537

PROJECT: WALTER REED

CHILLER STUDY

NAME

COMPANY

TREY McCANN

THE TRANE CO.

JACK FISHER

ENTECH

ITEMS DISCUSSED:

BLDG. 54 CHILLER

80CHV 700TON R-11 1983 1400/1200 GPM
460 KW 55°-43° 85°-95°

BLDG. 49 CHILLER

660 TON R-11 1971 1585/1980 GPM
525 KW 54°-44°

cc:

**TRANE™**

THE TRANE COMPANY
2570 INTERSTATE DRIVE
HARRISBURG, PA 17110
FAX (717) 652-5155
PHONE (717) 652-4261

CREATING THE RIGHT ATMOSPHERE

ATTENTION: Jack Fisher COMPANY: Entech

FAX NUMBER: _____

FROM: Trey Mc Cann

SUBJECT: Walter Reed

COMMENTS: Chiller Selection

TOTAL NUMBER OF PAGES = 2, INCLUDING TRANSMITTAL COVER SHEET.

CPF- 4130.02 / 350
J. Fisher
E. Calkins

TRANE CENTRAVAC SELECTION PROGRAM

Rev Level 55017

Version 14.08
Mon Mar 06, 1995

PROJECT : WALTER REED ARMY MEDICAL CENTER
 LOCATION : WASHINGTON D.C.
 BLDG. OWNER : USA
 PROGRAM USER : TREY MCCANN
 COMMENTS :
 MACHINE : CVHF 1280 1228 328 210L 2100 TECU 28 210L 2100 TECU 28 2150

***** INPUT CONDITIONS *****

DESIGN DUTY

EXITING EVAP TEMP	43	ENTERING COND TEMP	85
ENTERING EVAP TEMP	53	EXITING COND TEMP	95
EVAPORATOR PASSES	2	CONDENSER PASSES	2
FLUID TYPE	WATER	FLUID TYPE	WATER
FLUID %	0	FLUID %	0

VOLTAGE 4160
 FREQUENCY 60
 REFRIGERANT 123

***** OUTPUT DATA *****

NOTE - PERFORMANCE CERTIFIED IN ACCORDANCE WITH ARI STANDARD 550-92
 NOTE - EXTENDED SHELL SELECTION.

DESIGN DUTY	TONS	1481
POWER CONSUMED	KW	1082
KW PER DESIGN DUTY		0.731

EXIT EVAP TEMP	F	43.00
EVAP FLOW RATE	GPM	3553.6
ENTERING EVAP TEMP	F	53.00
EVAP PD (NON-MAR)	FEET	27.14
EVAP PD (MARINE)	FEET	28.24
EVAP FOULING FACTOR		0.00025
FLUID TYPE AND %		WATER 0

ENTERING COND TEMP	F	85.00
COND FLOW RATE	GPM	4334.4
EXIT COND TEMP	F	95.00
COND PD (NON-MAR)	FEET	27.25
COND PD (MARINE)	FEET	28.87
COND FOULING FACTOR		0.00025
FLUID TYPE AND %		WATER 0

MAX LRA AT MOTOR KW	AMPS	1044
RLA AT MOTOR KW	AMPS	186
RLA AT SELECTION KW	AMPS	164

REFRIGERANT CHARGE	LBS	2400
SHIP WT. (W/NMAR WB.)	LBS	44454
OPER WT. (W/NMAR WB.)	LBS	52622

mod1-CVHF	nton-1280	volt-4160	hrtz-60	type-SNGL	cpkw-1228	cpim-328
evtm-TECU	evth-28	evsz-210L	evbs-2100	evwp-2	orsz-2150	refg-123
cdtm-TECU	cdth-28	cdsz-210L	cdbb-2100	cdwp-2	cdty-STD	typo-EXTD

Carrier

Carrier Building Systems & Services

4110 BUTLER PIKE
BUILDING 1, SUITE A104
PLYMOUTH MEETING, PA 19462

(610) 834-1717 - PHONE

(610) 834-0880 - FAX

TO: Jack FisherCOMPANY: 373 7537FROM: Tom Green

SUBJECT: _____

DATE: 1/13/95PAGE 1 OF 2

MESSAGE: _____

Jack BLDG 54here is design dataon (17M) & general infoon (306B200)BLDG T-2**IMPORTANT NOTICE****CAUTION:**

This facsimile message contains private or other sensitive information of the sender and is intended solely for the recipient named above. If you are not the intended recipient (1) You should hold this message in confidence and be aware that any disclosure, copying, distribution or use of this information is prohibited. (2) Please notify the sender by telephone (collect). (3) Please return this message to sender at the address given above via the U.S. Postal Service. We appreciate your cooperation and will reimburse you for your cost of postage.

CC: CPF-4130.02
E. CAULKINS

5/27/52

ATTACHED DATE

ONLY VLA

SOLD FOR JOB 56185-00 CARRILLER
THIRD—AN SL/PL ENTER BANK OF COLLECTION MARK

3

QTY	DESCRIPTION	UNIT LIST	TOTAL LIST	UNIT PRICE	NET TOTAL
	SHIP 1/1/53 NOT BEFORE				
	DO-C2 APPLIES TO THIS REQUISITION SUBJECT TO THE RENEGOTIATION ACT. SERIAL 2474-2475				
2	17854-83-82 CENTRIFUGAL REFRIGERATION MACHINES FOR 600 TONS EACH. MACHINES TO BE MOUNTED ON CONCRETE FOUNDATION SUPPLIED BY OTHERS. EACH MACHINE TO BE DRIVEN BY A 600 HP SQUIRREL CAGE MOTOR AND SPEED INCREASING GEAR.				
	EACH MACHINE TO CONSIST OF THE FOLLOWING:				
	1-17854 CENTRIFUGAL COMPRESSOR TO OPERATE AT 4775 RPM AT 610 BHP USING F-11.				
	1-17854 COOLER, 3-PASS, 1370 GPM OF WATER COOLED FROM 44.5 DEG. F. TO 44 DEG F. AT 33.7 F. SUCTION TEMPERATURE, 35 FT. PRESSURE DROP. 10-IN COPPER TUBES, .0005 SCALE FACTOR, NOZZLE ARRANGEMENT #18				
	WATER SIDE FOR 2000 W/P WITH HYDROSTATIC TEST AT 150% OF WORKING PRESSURE. WATER SIDE TO BE INSPECTED AND STAMPED IN ACCORDANCE WITH A.S.M.E. & DISTRICT OF COLUMBIA CODES.				

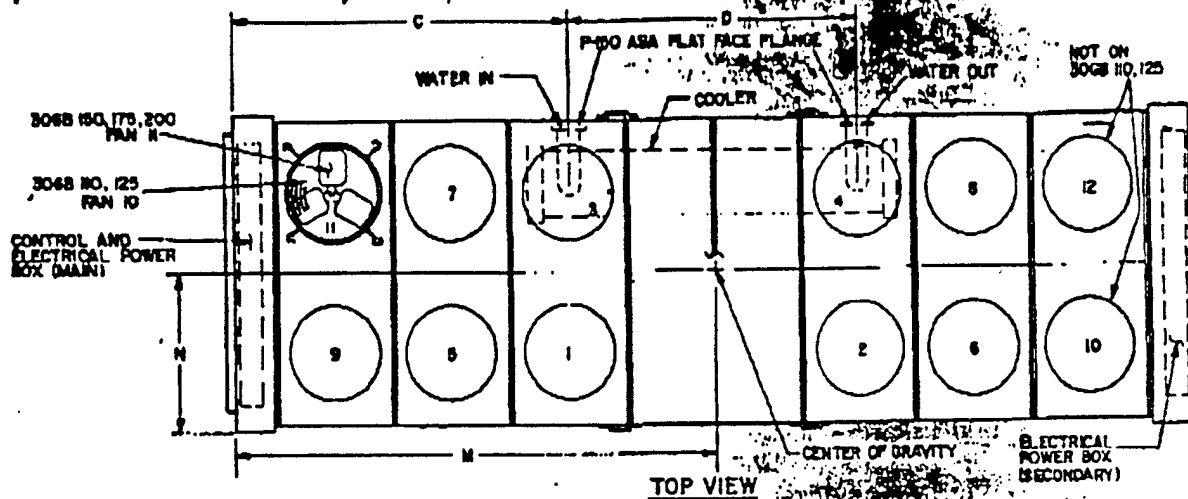
CP IN THIS COLUMN DENOTES SHIPMENT DIRECT FROM VENDOR

HEAVY MACHINERY	TRUCKS	SPECIAL COMMENTS, REFER TO ---			
HEAVY MACHINERY	STORAGE	STORAGE	STORAGE		
CONSTRUCTION EQUIPMENT	CONSTRUCTION EQUIPMENT	CONSTRUCTION EQUIPMENT	CONSTRUCTION EQUIPMENT		

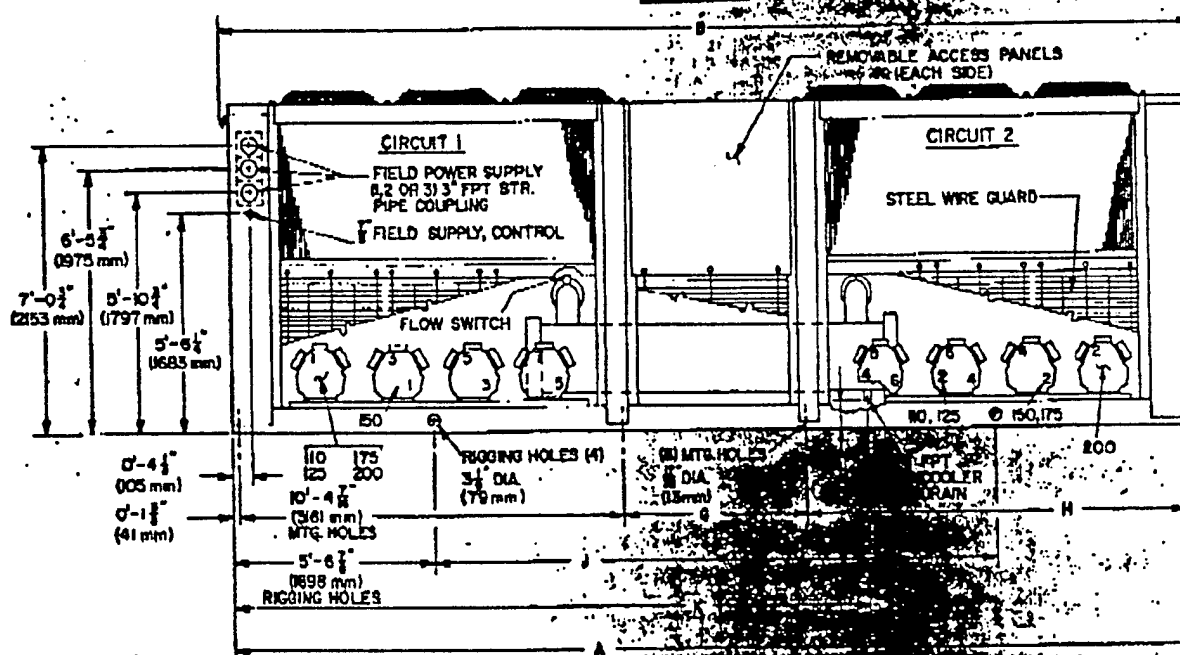
THE INFORMATION IS BASED ON THE INFORMATION PROVIDED BY THE SUPPLIER. THE INFORMATION IS NOT GUARANTEED BY THE SUPPLIER.

TOTAL PAGE.003 ##.

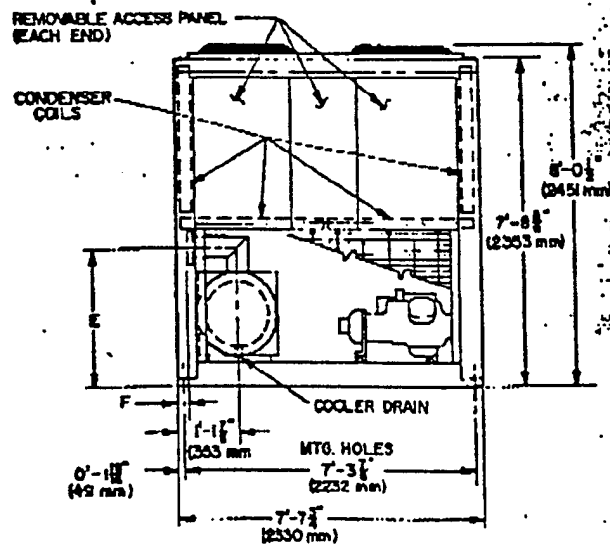
QTY	QTY	DESCRIPTION	UNIT LIST	TOTAL LIST	QTY	TOTAL
		1- 17R8 CONDENSER, 2-PASS, 1800 GPM FROM 87 DEG F TO 96.7 DEG F. WITH 105.5 DEG F. CONDENSING TEMPERATURE 20.7 FT. PRESSURE DROP. LO-FIN COPPER TUBES. .0005 SCALE FACTOR. NOZZLE ARRANGEMENT 1/2" WATER SIDE FOR 200" W.F. WITH HYDROSTATIC TEST 150% OF WORKING PRESSURE. REFRIGERANT SPACE TO BE SHOP TESTED AT TWICE THE DESIGN WORKING PRESSURE WATER SIDE TO BE INSPECTED AND STAMPED IN ACCORDANCE WITH A.S.M.E. & DISTRICT OF COLUMBIA CODES.				
		1- PURGE RECOVERY UNIT FOR 440/3/60 WITH 110 VOLT HOLDING COIL IN MOTOR STARTER.				
		1- CONTROL PANEL WITH AUXILIARY FOR MOTOR DRIVE. PANEL TO BE MOUNTED IN STANDARD LOCATION WITH INSTRUMENTS FOR 110/1/60. SAFETY CUT-OUTS TO HAVE MANUAL RESET FEATURE.				
		1- AUXILIARY OIL PUMP FOR COMPRESSOR COMPLETE WITH 440/3/60 MOTOR, COUPLING, BASE AND PRESSURE SWITCH (MOTOR STARTER TO BE SUPPLIED BY MILA. PURCHASING)				
		1- SET OF COMPRESSOR SOLE VALVES AND ACCESSORIES.				
2		AUXILIARY CONTROL PANEL FOR REMOTE INSTALLATION. PANEL TO BE THE SAME AS STANDARD EXCEPT THE LOW TEMPERATURE, HIGH PRESSURE AND LOW OIL PRESSURE CUTOUTS ARE TO BE REPLACED WITH PILOT LAMPS. (DETAILS LATER). STANDARD MOUNTING BRACKETS NOT REQUIRED.				
2		AUTOMATIC SUCTION DAMPERS.				
2		1/2" MANUAL HOT-GAS B-PASS.				
2		EXTRA WATER BOX FOR 1/8" COOLER.				
2		17M32-333 OIL COOLERS.				
		DO NOT SUBSTITUTE MATERIAL WITHOUT PRIOR APPROVAL.				
		JMC. 6/11/52				



TOP VIEW



SIDE VIEW



END VIEW

DIMENSIONS

DIM.	UNIT 30GB				
	110	125	150	175	200
A	21-7-5/16		24-7-1/8		
B	21-7-16/16		24-7-3/4		
C	9-0-3/16	8-3-7/16	8-5-1/4		
D	8-0-3/4	8-0-5/16	7-8-1/2		
E	2-4-15/16	2-4-3/16	2-8-1/4		
F	0-1-13/16	0-2-8/16	0-2-1/2		
G			3-7		
H			10-4-7/16		
J	12-6		13-6-7/16		
K	15-2-1/16	16-5-1/16	18-5		
L	0-6-3/8		0-6-1/2		
M	10-10-1/2	10-6-1/4	12-3-9/16		
N	3-8-3/4	3-6-3/4	3-9-7/8		
P	5	6	6		

Unit must have clearances as follows:

Top — Do not restrict in any way.
Ends — 5'0" (1524 mm)
Sides — 8'0" (2438 mm)

Physical data (60 Hz)

UNIT 30GB	080	100	110	125	150	175	200							
APPROX OPERATING WEIGHT (lb)	7522	8520	10,445	11,050	14,100	14,600	15,100							
REFRIGERANT CHARGE (lb)														
R-22 Circuit 1	110	130	155	170	230	230	230							
Circuit 2	110	130	105	120	230	230	230							
COMPRESSORS (Type...Rpm)	Reciprocating, Semi-Hermetic...1750													
05E (No.) Circuit 1	(2) F265	(2) F275	(3) F265	(3) F275	(3) F275	(4) F275	(4) F275							
(No.) Circuit 2	(2) F265	(2) F275	(2) F275	(2) F275	(3) F275	(3) F275	(4) F275							
Capacity Control Steps	4	4	5	5	8	7	8							
Circuit 1	50	50	60	60	50	57	50							
% Cap. Circuit 2	50	50	40	40	50	43	50							
Minimum Step Capacity (%)	25	25	20	20	16.7	14.3	12.5							
CONDENSER FANS	3-Blade Propeller, Direct Drive													
No. ...Diameter (in.)	8...30		10...30		12...30									
Rpm...Total Kw	1140...12.4		1140...15.5		1140...18.8									
Total Airflow (cfm)	78,400		98,000		117,500									
CONDENSER COILS	13.5 Fins/in. ...1/2-in. OD Copper Tube													
Condenser	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
No. Rows Circuit 1	3	3	4	4	3	3	4	3	4	4	4	4	4	4
Circuit 2	3	3	4	4	4	3	4	3	4	4	4	4	4	4
Face Area Circuit 1	40.3	40.3	40.3	40.3	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
(sq ft) Circuit 2	40.3	40.3	40.3	40.3	40.5	40.5	40.5	40.5	60.5	60.5	60.5	60.5	60.5	60.5
COOLER (No. ...Type)	One...Direct Expansion, Shell and Tube													
Model 10HA400--	364		194		194		454		504					
No. Refrigerant Circuits	2		2		2		2		2					
Net Water Vol. (gal.) (Includes Nozzles)	21.7		40.4		40.4		52.4		60.2					
Max. Working Pressure (psig)	Refrigerant Side: 235, Water Side: 150													
WATER CONNECTIONS (in.)	(Cooler Inlet and Outlet) 150-lb. ASA Flat Face Flange													
Inlet and Outlet	4		5		5		6		6					
Drain	3/4 FPI													

Selection procedure (with example)

I Determine job requirements.

Given:

Cooling Load 190 Tons
 Leaving Chilled Water Temperature (LCWT) 45 F
 Chilled Water System ΔT 10 F
 Cooler Fouling Factor 0.0005
 Condenser Entering Air Temperature (CEAT) ... 95 F

II Select unit to provide cooling load capacity.

Enter Performance Ratings table at 95 F CEAT and 45 F LCWT. Under Cap., 198.2 tons is nearest to and greater than the given cooling load (190 tons). Read unit selection and performance data directly from table.

Unit 30GB200
 Capacity (Cap.) 198.2 Tons
 Saturated Discharge Temp (SDT) 130.5 F
 Compressor Power Input (Kw) 230.8 Kw
 Cooler Flow Rate (Gpm) 474.7 gpm
 Cooler Pressure Drop (PD) 12.6 ft water

Performance data

Ratings

The following ratings tables are based on 10 F chilled water rise, 0.0005 fouling factor in cooler, and Refrigerant 22. Ratings in boldface type are in accordance with ARI Standard 590-81. The conditions are 95 F Condenser Entering Air Temperature (dry-bulb), 44 F Leaving Chilled Water Temperature.

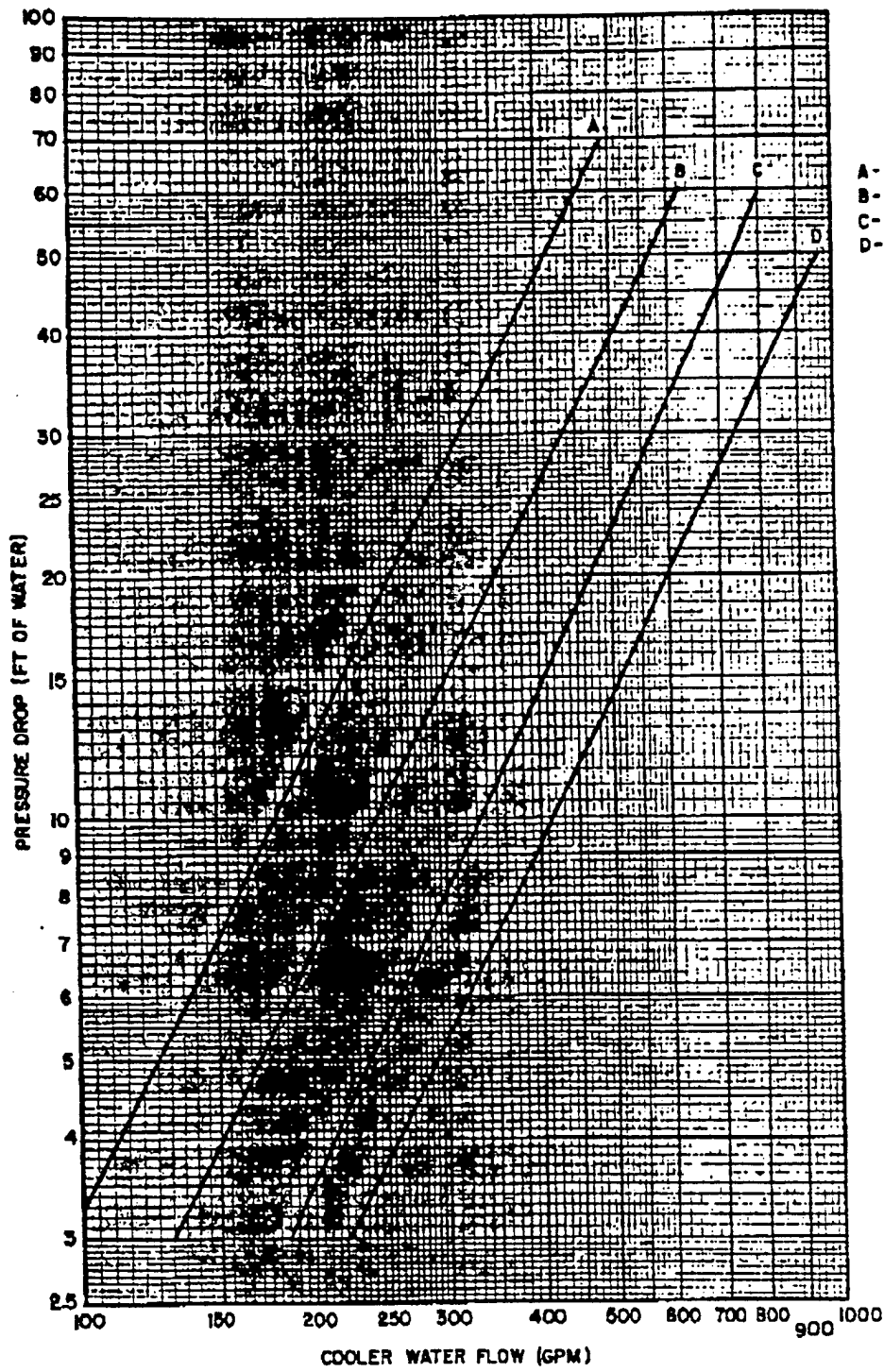
Cap. - Capacity
 Kw - Compressor Motor Power Input
 LCWT - Leaving Chilled Water Temp
 PD - Pressure Drop (ft water)
 SDT - Sat. Disch Temp

LCWT	UNIT	88						90						95					
		Cap.	SDT	Kw	Cooler Flow Data		Cap.	SDT	Kw	Cooler Flow Data		Cap.	SDT	Kw	Cooler Flow Data		Cap.	SDT	Kw
					Gpm	PD				Gpm	PD				Gpm	PD			
40	GB090	87.9	114.4	90.2	210.1	13.5	85.2	118.8	82.4	203.6	12.7	82.4	123.2	84.3	197.1	12.0	82.4	123.2	84.3
	GB100	98.1	113.1	102.1	234.4	8.0	95.0	117.5	104.8	227.0	8.0	91.8	121.9	107.3	218.8	7.9	91.8	121.9	107.3
	GB110	109.7	113.8	117.3	262.3	11.2	106.4	118.2	120.3	254.3	10.9	103.0	122.6	123.0	248.3	9.9	103.0	122.6	123.0
	GB125	125.7	115.1	130.9	300.6	8.1	121.5	119.4	134.2	290.4	7.5	117.3	123.7	137.4	280.4	7.0	117.3	123.7	137.4
	GB150	153.8	114.6	157.3	367.7	7.7	148.4	118.9	181.5	364.8	7.2	143.2	123.2	186.2	342.2	6.7	143.2	123.2	186.2
	GB175	174.4	117.2	184.8	416.9	9.6	166.6	121.5	189.2	403.0	9.2	162.7	125.8	193.3	386.9	8.6	162.7	125.8	193.3
	GB200	192.2	118.9	208.4	458.6	11.9	185.8	123.1	213.0	444.2	11.1	178.6	127.3	217.2	429.1	10.4	178.6	127.3	217.2
42	GB090	91.6	115.6	92.2	218.8	14.6	86.7	120.0	84.5	212.3	13.8	85.9	124.3	86.6	205.6	13.0	85.9	124.3	86.6
	GB100	101.8	114.1	104.2	243.6	9.7	96.7	118.5	107.1	236.0	9.1	95.5	122.8	109.8	228.4	8.6	95.5	122.8	109.8
	GB110	113.9	114.8	119.8	272.4	12.0	110.5	119.2	122.9	264.3	11.4	107.1	123.6	125.8	256.1	10.7	107.1	123.6	125.8
	GB125	130.8	116.3	133.9	312.8	8.8	126.5	120.6	137.4	302.8	8.2	122.2	124.8	140.7	292.3	7.6	122.2	124.8	140.7
	GB150	160.1	116.7	160.8	383.1	8.3	154.7	120.0	166.2	370.0	7.8	149.3	124.3	169.2	357.0	7.3	149.3	124.3	169.2
	GB175	181.7	118.5	189.2	434.6	10.7	175.5	122.7	193.7	420.0	10.0	169.5	127.0	198.0	406.5	9.3	169.5	127.0	198.0
	GB200	199.9	120.2	213.4	478.2	12.8	193.4	124.4	218.2	462.9	12.0	186.9	128.6	222.8	447.0	11.3	186.9	128.6	222.8
44	GB090	95.1	116.7	94.2	227.7	15.8	92.3	121.1	96.6	221.0	14.9	89.5	125.8	98.9	214.2	14.0	89.5	125.8	98.9
	GB100	105.7	115.2	106.3	252.8	10.4	102.5	119.8	109.3	245.3	9.8	99.2	123.9	112.2	237.5	9.2	99.2	123.9	112.2
	GB110	116.1	115.9	122.3	282.7	12.9	114.5	120.3	125.5	274.4	12.2	111.1	124.7	128.5	266.1	11.5	111.1	124.7	128.5
	GB125	136.0	117.4	136.9	326.5	9.5	131.6	121.7	140.5	314.9	8.9	127.2	126.0	144.0	304.4	8.3	127.2	126.0	144.0
	GB150	156.6	116.8	164.4	398.9	9.0	161.1	121.2	169.0	385.5	8.4	155.5	126.5	173.2	372.2	7.9	155.5	126.5	173.2
	GB175	188.9	119.7	193.5	452.1	11.5	182.7	123.9	198.3	437.2	10.8	174.6	128.2	202.8	422.6	10.1	174.6	128.2	202.8
	GB200	207.0	121.5	215.2	497.0	13.8	201.0	125.7	223.4	481.2	13.0	194.4	129.9	228.1	465.4	12.2	194.4	129.9	228.1
46	GB090	97.0	117.3	95.4	232.2	16.4	94.1	121.7	97.7	225.4	15.6	91.3	126.0	100.0	218.8	14.6	91.3	126.0	100.0
	GB100	107.0	116.7	107.4	257.7	10.8	104.4	120.1	110.5	250.0	10.2	101.1	124.4	113.4	242.1	9.6	101.1	124.4	113.4
	GB110	120.2	116.4	123.5	287.9	13.9	116.7	120.8	126.8	279.5	12.7	113.2	125.2	129.9	271.1	11.9	113.2	125.2	129.9
	GB125	138.8	118.0	138.4	331.9	9.9	134.1	122.3	142.1	321.2	9.2	129.7	126.6	145.6	310.8	8.6	129.7	126.6	145.6
	GB150	169.9	117.4	166.2	406.9	9.4	164.3	121.7	170.9	393.4	8.8	158.7	128.0	175.2	380.0	8.2	158.7	128.0	175.2
	GB175	192.7	120.4	196.8	461.4	12.0	186.4	124.6	200.7	448.2	11.2	180.0	128.8	205.2	431.0	10.5	180.0	128.8	205.2
	GB200	211.8	122.1	220.9	506.7	14.3	204.8	126.3	226.0	490.5	13.5	198.2	130.5	230.8	474.7	12.6	198.2	130.5	230.8
48	GB090	98.9	117.9	95.2	236.8	17.0	95.0	122.2	98.8	229.9	16.1	93.1	126.6	101.2	223.0	15.2	93.1	126.6	101.2
	GB100	109.6	116.2	108.6	262.5	11.2	106.3	120.8	111.7	254.7	10.6	103.0	126.0	114.6	246.8	10.0	103.0	126.0	114.6
	GB110	121.4	116.9	124.7	293.1	13.9	118.8	121.3	128.1	284.6	13.1	115.3	126.7	131.3	276.1	12.4	115.3	126.7	131.3
	GB125	141.3	118.6	139.9	338.5	10.3	136.8	122.9	143.7	327.6	9.6	132.2	127.2	147.3	316.8	9.0	132.2	127.2	147.3
	GB150	173.4	118.0	168.1	415.3	9.8	167.6	122.3	172.8	401.4	9.1	161.9	126.6	177.2	387.8	8.5	161.9	126.6	177.2
	GB175	198.4	121.0	198.0	470.5	12.4	190.0	125.2	203.0	456.2	11.7	183.6	129.4	207.7	439.8	10.9	183.6	129.4	207.7
	GB200	216.6	122.8	223.6	516.4	14.9	208.8	127.0	228.8	500.2	14.0	202.1	131.2	233.6	484.1	13.1	202.1	131.2	233.6
48	GB090	102.6	119.1	98.2	245.9	18.3	99.7	123.4	100.9	239.0	17.3	96.8	127.8	103.5	231.9	16.3	96.8	127.8	103.5
	GB100	113.8	117.4	110.7	272.3	12.0	110.3	121.7	114.0	264.3	11.4	106.9	128.1	117.1	256.2	10.7	106.9	128.1	117.1
	GB110	126.7	118.0	127.3	303.7	14.8	123.1	122.4	130.8	295.0	14.0	119.5	128.8	134.1	286.4	13.3	119.5	128.8	134.1
	GB125	148.8	119.9	142.8	351.4	11.1	142.1	124.1	148.9	340.5	10.4	137.4	128.4	150.7	329.4	9.7	137.4	128.4	150.7
	GB150	180.1	119.2	171.6	431.5	10.5	174.1	123.5	176.5	417.3	9.8	168.4	127.8	181.2	403.6	9.2	168.4	127.8	181.2
	GB175	204.1	122.4	202.6	489.0	13.4	197.5	126.5	207.7	473.2	12.6	191.0	130.7	212.7	457.7	11.8	191.0	130.7	212.7
	GB200	223.7	124.1	228.6	536.1	16.0	216.7	128.3	234.1	518.4	15.0	209.9	132.5	239.2	503.0	14.1	209.9	132.5	239.2

LCWT	UNIT	105						110						115					
		Cap.	SDT	Kw	Cooler Flow Data		Cap.	SDT	Kw	Cooler Flow Data		Cap.	SDT	Kw	Cooler Flow Data				
					Gpm	PD				Gpm	PD				Gpm	PD			
40	GB090	76.9	131.9	97.8	183.8	10.5	74.1	136.3	89.3	177.1	9.7	71.3	140.6	100.6	170.4	9.0			
	GB100	85.6	130.7	112.0	204.6	6.9	82.5	135.0	114.1	197.3	6.5	79.4	139.4	116.0	189.9	6.0			
	GB110	96.2	131.4	127.9	230.0	8.7	92.8	135.8	130.0	221.9	8.1	89.4	140.2	132.0	213.6	7.5			
	GB125	109.0	132.4	143.0	260.5	8.0	104.8	136.7	145.4	250.4	5.6	100.6	141.0	147.6	240.5	5.1			
	GB150	132.8	131.9	172.0	317.4	5.8	127.5	136.2	174.9	304.8	5.4	122.3	140.5	177.5	292.4	4.9			
	GB175	150.8	134.2	200.4	360.4	7.4	144.9	138.5	203.5	346.5	5.9	139.2	142.8	206.4	332.8	6.4			
	GB200	166.9	135.8	224.6	399.0	9.0	160.6	140.0	227.8	383.9	8.4	154.3	144.2	230.7	369.0	7.8			
42	GB090	80.2	133.0	100.3	191.9	11.4	77.4	137.3	101.9	185.1	10.6	74.5	141.7	103.4	178.2	9.9			
	GB100	89.1	131.6	114.7	213.2	7.5	86.0	136.0	116.9	205.7	7.0	82.8	140.4	115.9	198.1	6.5			
	GB110	100.1	132.4	130.9	239.5	9.4	96.6	136.8	133.3	231.2	8.8	93.1	141.2	135.3	222.8	8.2			
	GB125	113.6	133.5	146.5	271.7	8.6	109.3	137.8	149.2	261.8	8.1	106.1	142.0	151.5	251.3	6.6			
	GB150	138.5	133.0	176.3	331.4	6.3	133.2	137.3	179.4	318.6	5.8	127.9	141.6	182.3	305.9	5.4			
	GB175	157.3	135.4	205.6	376.4	8.1	151.4	138.7	209.0	362.2	7.5	145.5	143.9	212.1	348.1	6.9			
	GB200	174.0	137.0	230.5	416.3	9.8	167.5	141.2	233.9	400.8	9.1	161.1	145.4	237.1	395.5	8.4			
44	GB090	83.6	134.1	102.8	200.7	12.3	80.7	138.4	104.6	193.2	11.5	77.8	142.8	106.1	186.2	10.7			
	GB100	92.7	132.7	117.4	221.9	8.1	89.5	137.0	119.7	214.1	7.6	86.2	141.4	121.8	206.4	7.1			
	GB110	104.1	133.4	134.0	249.1	10.1	100.5	137.8	136.5	240.6	9.5	97.0	142.2	137.8	232.1	8.8			
	GB125	118.4	134.6	150.2	283.4	7.2	114.0	138.9	163.0	272.9	6.8	109.8	143.1	155.5	282.4	6.1			
	GB150	144.5	134.1	180.7	345.8	6.8	139.0	138.3	184.0	332.8	6.4	133.5	142.6	187.1	319.6	5.9			
	GB175	164.0	136.8	210.8	392.7	8.8	157.8	140.8	214.3	377.9	8.1	151.9	145.1	217.8	363.6	7.5			
	GB200	181.3	138.3	236.4	433.9	10.6	174.6	142.4	240.0	418.0	9.9	168.1	146.6	243.5	402.4	9.2			
46	GB090	85.4	134.7	104.1	204.4	12.8	82.4	139.0	105.9	197.4	12.0	79.5	143.3	107.5	190.3	11.2			
	GB100	94.5	133.2	118.8	226.4	8.4	91.3	137.5	121.1	218.6	7.9	88.0	141.9	123.3	210.7	7.3			
	GB110	106.1	133.9	135.6	253.9	10.5	102.5	138.3	138.1	245.4	9.8	98.9	142.7	140.4	235.8	9.7			
	GB125	120.8	135.2	152.1	289.3	7.5	116.4	139.4	154.9	278.7	6.9	111.9	143.7	157.5	268.1	6.4			
	GB150	147.5	134.8	182.9	353.2	7.1	142.0	138.9	186.3	340.0	6.6	135.4	143.2	189.5	326.6	6.1			
	GB175	167.4	137.2	213.5	400.9	8.1	161.3	141.4	217.2	386.1	6.5	155.1	145.7	220.6	371.5	7.9			
	GB200	184.9	138.9	239.4	442.8	11.0	178.2	143.1	243.1	426.8	10.3	171.6	147.3	246.7	410.9	9.6			
48	GB090	87.1	135.2	106.3	208.7	13.3	84.2	139.6	107.2	201.8	12.5	81.1	143.9	108.9	194.4	11.6			
	GB100	96.4	133.7	120.1	230.9	8.8	93.1	138.0	122.5	223.0	8.2	89.8	142.4	124.8	215.0	7.6			
	GB110	108.1	134.5	137.1	258.9	10.9	104.6	138.8	139.7	250.2	10.2	100.8	143.2	142.1	241.5	9.6			
	GB125	123.3	135.7	153.9	295.3	7.8	118.8	140.0	156.8	284.5	7.2	114.3	144.2	159.5	273.7	6.7			
	GB150	150.6	135.2	185.1	360.7	7.4	145.0	139.5	188.8	347.2	6.9	139.3	143.7	192.0	333.7	6.4			
	GB175	171.0	137.9	216.2	409.6	8.5	164.8	142.1	220.0	394.3	8.8	158.4	146.3	223.5	379.4	8.2			
	GB200	188.7	139.5	242.4	451.9	11.5	181.9	143.7	246.2	435.6	10.7	175.1	147.9	248.9	419.5	9.9			
50	GB090	90.7	136.4	107.9	217.4	14.4	87.6	140.7	109.9	210.0	13.5	84.8	145.0	111.7	202.7	12.6			
	GB100	100.1	134.7	123.8	240.0	9.4	96.7	139.1	126.4	231.8	8.8	93.3	143.4	127.8	223.7	8.2			
	GB110	112.2	135.5	140.2	268.8	11.7	108.5	139.9	143.0	260.0	11.0	104.8	144.2	145.5	251.2	10.3			
	GB125	128.7	136.9	157.5	307.2	8.4	123.7	141.1	160.7	298.3	7.8	119.0	145.4	163.5	285.3	7.3			
	GB150	156.8	136.3	189.8	375.9	8.0	151.0	140.6	193.3	362.0	7.5	145.3	144.8	196.8	348.1	6.9			
	GB175	178.0	139.1	221.6	426.5	10.3	171.4	143.3	225.6	410.8	9.6	165.1	147.5	229.3	395.6	8.9			
	GB200	196.2	140.8	248.5	470.2	12.4	189.3	145.0	252.6	453.8	11.8	182.4	149.1	256.4	437.1	10.8			

Performance data (cont)

→ TOTAL COOLER PRESSURE DROP



A-10HA400364
B-10HA400194
C-10HA400454
D-10HA400504

COOLER 10HA400	UNIT 30GB
364	090
194	100 110
454	125
504	150 175 200

UNIT									COMPRESSORS†			FAN MOTORS‡				
30GB	Model	Volts		Type of Start	MCA	MOPA (Fuse)	ICF	RLA (ea)	LRA (ea)	Total MTA (CB)	Total Kw	Ph	FLA (ea)	MTA* (FCB)	Hp (NEC)	
		Name-plate	Supplied* Min Max													
090	500	208-230	187	254	XL	490.1	800	808	102.9	448	144	12.4	3	6.6	74	1.94
	600	460	414	508	XL	215.3	250	382	45.0	223	83	12.4	3	3.0	28	1.75
	100	575	518	632	XL	204.0	250	314	43.5	164	61	12.4	3	2.4	22	1.75
100	500	208-230	187	254	XL	520.3	600	889	110.0	506	154	12.4	3	6.6	74	1.94
	600	460	414	508	XL	245.4	300	434	52.1	253	73	12.4	3	3.0	28	1.75
	100	575	518	632	XL	210.5	250	330	45.0	176	63	12.4	3	2.4	22	1.75
110	500	208-230	187	254	XL	622.2	700	991	(See Table Below)			15.5	3	6.6	74	1.94
	600	460	414	508	XL	282.2	300	470				15.5	3	3.0	28	1.75
	100	575	518	632	XL	255.8	300	376				15.5	3	2.4	22	1.75
125	500	208-230	187	254	XL	643.5	700	1012	110.0	506	154	15.5	3	6.6	74	1.94
	600	460	414	508	XL	303.5	350	492	52.1	253	73	15.5	3	3.0	28	1.75
	100	575	518	632	XL	260.3	300	380	45.0	176	63	15.5	3	2.4	22	1.75
150	500	208-230	187	253	XL	767	1000	1138	110	506	154	18.6	3	6.6	74	1.94
	600	460	414	508	XL	362	450	550	52	253	73	18.6	3	3.0	28	1.75
	100	575	518	632	XL	310	400	430	45	176	63	18.6	3	2.4	22	1.75
175	500	208-230	187	253	XL	877	1000	1246	110	506	154	18.6	3	6.6	74	1.94
	600	460	414	508	XL	414	500	802	52	253	73	18.6	3	3.0	28	1.75
	100	575	518	632	XL	355	400	475	45	176	63	18.6	3	2.4	22	1.75
200	500	208-230	187	253	XL	987	1200	1356	110	506	154	18.6	3	6.6	74	1.94
	600	460	414	508	XL	466	600	654	52	253	73	18.6	3	3.0	28	1.75
	100	575	518	632	XL	400	450	520	45	176	63	18.6	3	2.4	22	1.75

- CB — Circuit Breaker (Compressors)
 FCB — Fan Circuit Breaker
 FLA — Full Load Amps (Fan Motors)
 Hp — Horsepower
 ICF — Maximum Instantaneous Current Flow during starting (the point in the starting sequence where the sum of the LRA for the starting compressor, plus the total RLA for all running compressors, plus the total FLA for all running fan motors is maximum).
 Kw — Total condenser fan motor power input
 LRA — Locked Rotor Amps
 MCA — Minimum Circuit Amps (for wire sizing). Complies with NEC Section 430-24.
 MOPA — Maximum Overcurrent Protective Device Amps
 MTA — Must Trip Amps (Circuit Breaker)
 NEC — National Electrical Code
 Ph — Phase
 RLA — Rated Load Amps (Compressors)
 XL — Across-the-Line

*Units are suitable for use on electrical systems where voltage supplied to the unit terminals is not below or above the listed minimum and maximum limits.

†30GB090,100: 4 compressors
 30GB110,125: 5 compressors
 30GB150: 6 compressors
 30GB175: 7 compressors
 30GB200: 8 compressors

‡30GB090,100: 8 Fans
 30GB110,125: 10 Fans
 30GB150-200: 12 Fans

**30GB090,100: One FCB for all fans.
 30GB110-200: One FCB for each circuit.

UNIT		COMPRESSORS (No.)					
30GB	Model	(3) Circuit 1			(2) Circuit 2		
		RLA	LRA	MTA	RLA	LRA	MTA
110	500	102.9	446	144	110.0	506	154
	600	45.0	223	83	52.1	253	73
	100	43.5	164	61	45.0	176	63

General electrical notes

- The 115/1-60 control circuit power must be supplied from a separate source, thru a field-supplied fused disconnect.
- Crankcase and cooler heaters are wired into the control circuit so they are always operable as long as the control circuit power supply disconnect is on, even if any safety device is open or the unit ON-OFF switch is off.
- Heaters are wired ahead of the control circuit fuse; thus, they are protected by the overcurrent protective device in the control circuit power supply.
- All units have single-point power connection to simplify field power wiring.
- On 208/230/3/60 units:
30GB090,100 have 2 terminal blocks and require 6 parallel conductors from the disconnect.
30GB110-200 have 3 terminal blocks and require 9 parallel conductors from the disconnect.
- On 460 and 575/3/60 units:
30GB090-125 have one terminal block and require 3 parallel conductors from the disconnect.
30GB110-200 have 2 terminal blocks and require 6 parallel conductors from the disconnect.
- Maximum incoming wire size for each terminal block is 500 MCM.
- The 208-230-volt 30GB200 units must have copper main power conductors to meet NEC requirements. All other units may use aluminum, copper-clad or copper conductors.

Carrier

Carrier Building Systems & Services

CPF- 4130.02
J. FISHER

4110 BUTLER PIKE
BUILDING 1, SUITE A104
PLYMOUTH MEETING, PA 19462

(610) 834-1717 - PHONE
(610) 834-0880 - FAX

TO: Ed Cankers

COMPANY: 373-~~DEB~~ 7537

FROM: Tim Green

SUBJECT: Walter Reed

DATE: 1/6/95

PAGE 1 OF 2

MESSAGE: Ed, 2 pass cooler, 2 pass condenser,

19C705-21-21

42 lvg chilled water

95 lvg cond water

will be produce 1096 tons

using 852 kW

~ .78 kW/Ton

Regards,

Tim Green

IMPORTANT NOTICE

CAUTION:

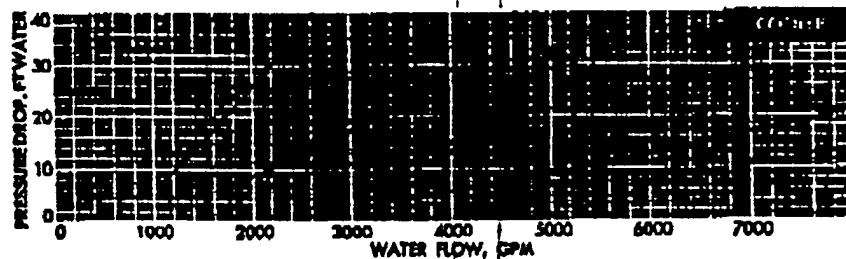
This facsimile message contains private or other sensitive information of the sender and is intended solely for the recipient named above. If you are not the intended recipient (1) You should hold this message in confidence and be aware that any disclosure, copying, distribution or use of this information is prohibited. (2) Please notify the sender by telephone (collect), or (3) Please return this message to sender at the address given above via the U.S. Postal Service. We appreciate your cooperation and will reimburse you for your cost of postage.

Index Rating **1314**

Bold Face ratings are based on 852 Kilowatt Input.
 Light Face ratings require less than 852 Kilowatt Input.
Italicized figures are for interpolation only.

MACHINE SIZE 19C7U-21-21 KILOWATT INPUT 852*		LEAVING CHILLED WATER TEMP. (°F)	LEAVING CONDENSER WATER TEMPERATURE											
			85			90			95			100		
			IMPELLER COMBINATION											
PASS	WATER FLOW		7	6	5	7	6	5	7	6	5	7	6	5
REFRIGERATION CAPACITY, TONS														
3	Cooler 1074-2685 GPM	40			1143			1120			1084			1039
		42			1174			1140			1108			1062
		44		1218			1188			1160			1104	
		46		1233			1198			1182			1116	
2	Condenser 1830-4870 GPM	44		1231			1208			1174			1128	
		48	1278			1238			1208			1184		
		50	1214			1272			1233			1190		
2	Cooler 1611-4030 GPM	40			1130			1104			1068			1016
		42			1156			1128			1096			1048
		44		1190			1160			1124	1107			1074
		46		1214			1186			1148			1105	
2	Condenser 1830-4870 GPM	44		1230			1194			1160			1118	
		48	1284			1228			1188			1138		
		50	1292			1248			1210			1164		

*Based on compressor requirement of 1670 hp and .8065 scale factor in cooler and condenser.

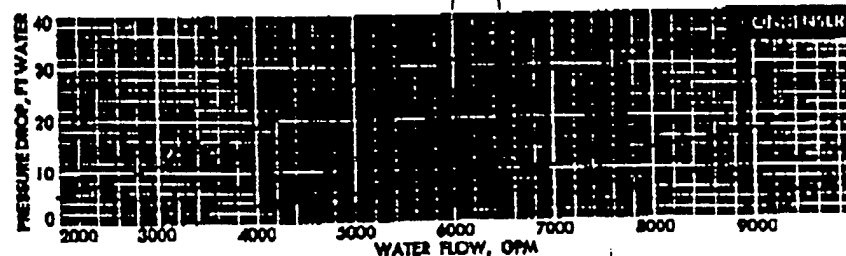


WEIGHTS:
 Cooler 22,810 lbs.
 Condenser 27,200 lbs.
 Compressor 12,890 lbs.
 Miscellaneous 1,570 lbs.
 (includes skids) Shipping 73,120 lbs.
 (includes water, oil, refrigerant, inventory) Operating 88,230 lbs.

TUBE DATA:
 Number of Tubes Cooler 1120 Condenser 1278
 Outside Surface, sq. ft. 8160 7904

REFRIGERANT:
 Carrier-11
 Operating Charge 6630 lbs.

AREA TO BE INSULATED: 892 sq. ft.



ATTACHMENT F

CHVAC/EZDOE Cooling Load Calculations

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING **
 Walter Reed Med Ctr 01/05/95
 READING, PA 19603
 PAGE 15
 ***** AIR SYSTEM # 1 (AHU_1) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION PEAK TIME & MONTH	FLOOR AREA	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
1	Building No. 07 4 PM AUGUST	48180	0 0	1,162,502 14,835	70,400 0	0 0.00	52,468 1.09
ZONE PEAK TOTALS		48,180	0	1,162,502	70,400	0	52,468
TOTAL ZONES: 1			0	14,835	0	0.00	1.09

AIR HANDLER DESC: AHU_1 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.95 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE	SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION		SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR		SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT		SEN.LOSS:	0 BTUH	
RETURN DUCT		SEN.LOSS:	0 BTUH	
TOTAL SYSTEM		SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE	SPACE	SEN.GAIN:	1,153,702 BTUH	
INFILTRATION		SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN		SEN.GAIN:	0 BTUH	
SUPPLY DUCT		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:				1,153,702 BTUH

SUPPLY: 1,153,702 / (0.999 X 1.10 X 20) = (52,468 CFM)
SUMMER VENT OUTSIDE AIR (28.3% OF SUPPLY): (14,835 CFM)

RETURN DUCT		SEN.GAIN:	0 BTUH	
RETURN PLENUM		SEN.GAIN:	0 BTUH	
OUTSIDE AIR		SEN.GAIN:	277,274 BTUH (	14,835 CFM)
BLOW-THRU FAN		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:				277,274 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 1,430,976 BTUH

ZONE	SPACE	LAT.GAIN:	63,360 BTUH	
INFILTRATION		LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR		LAT.GAIN:	391,148 BTUH (	14,835 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:				454,508 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 1,885,484 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 157.12 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING **
 Walter Reed Med Ctr 01/05/95
 READING, PA 19603
 PAGE 17
 ***** AIR SYSTEM # 2 (AHU_2) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION	FLOOR	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
2	General Hospital	227529	0	7,026,192	165,000	0	318,596
	4 PM AUGUST		0	245,731	0	0.00	1.40
ZONE PEAK TOTALS			0	7,026,192	165,000	0	318,596
TOTAL ZONES: 1			0	245,731	0	0.00	1.40

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
** ENTECH ENGINEERING ** READING, PA 19603
Walter Reed Med Ctr 01/05/95 PAGE 18
***** AIR SYSTEM # 2 (AHU_2) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_2 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.98 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE	SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION		SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR		SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT		SEN.LOSS:	0 BTUH	
RETURN DUCT		SEN.LOSS:	0 BTUH	
TOTAL SYSTEM		SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE	SPACE	SEN.GAIN:	7,005,567 BTUH	
INFILTRATION		SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN		SEN.GAIN:	0 BTUH	
SUPPLY DUCT		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:				7,005,567 BTUH

SUPPLY: 7,005,567 / (0.999 X 1.10 X 20) = (318,596 CFM)
SUMMER VENT OUTSIDE AIR (77.1% OF SUPPLY): (245,731 CFM)

RETURN DUCT		SEN.GAIN:	0 BTUH	
RETURN PLENUM		SEN.GAIN:	0 BTUH	
OUTSIDE AIR		SEN.GAIN:	4,592,846 BTUH (	245,731 CFM)
BLOW-THRU FAN		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:				4,592,846 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 11,598,413 BTUH

ZONE	SPACE	LAT.GAIN:	148,500 BTUH	
INFILTRATION		LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR		LAT.GAIN:	6,479,086 BTUH (	245,731 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:				6,627,586 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 18,225,999 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 1,518.83 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING **
 Walter Reed Med Ctr
 01/05/95
 READING, PA 19603
 PAGE 19
 ***** AIR SYSTEM # 3 (AHU_3) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION	FLOOR	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
3	Heaton Pavilion	2572816	0	33746176	440000	0	1532192
	4 PM AUGUST		0	1,157,767	0	0.00	0.60
ZONE PEAK TOTALS			0	33746176	440000	0	1532192
TOTAL ZONES: 1			0	1,157,767	0	0.00	0.60

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
** ENTECH ENGINEERING ** READING, PA 19603
Walter Reed Med Ctr 01/05/95 PAGE 20
***** AIR SYSTEM # 3 (AHU_3) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_3 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.99 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE	SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION		SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR		SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT		SEN.LOSS:	0 BTUH	
RETURN DUCT		SEN.LOSS:	0 BTUH	
TOTAL SYSTEM		SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE	SPACE	SEN.GAIN:	33,691,176 BTUH	
INFILTRATION		SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN		SEN.GAIN:	0 BTUH	
SUPPLY DUCT		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:				33,691,176 BTUH

SUPPLY: 33,691,176 / (0.999 X 1.10 X 20) = (1,532,192 CFM)
SUMMER VENT OUTSIDE AIR (75.6% OF SUPPLY): (1,157,767 CFM)

RETURN DUCT		SEN.GAIN:	0 BTUH	
RETURN PLENUM		SEN.GAIN:	0 BTUH	
OUTSIDE AIR		SEN.GAIN:	21,639,294 BTUH (	1,157,767 CFM)
BLOW-THRU FAN		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:				21,639,294 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 55,330,470 BTUH

ZONE	SPACE	LAT.GAIN:	396,000 BTUH	
INFILTRATION		LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR		LAT.GAIN:	30,526,356 BTUH (	1,157,767 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:				30,922,356 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 86,252,826 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 7,187.74 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING **
 Walter Reed Med Ctr 01/05/95
 READING, PA 19603
 PAGE 21
 ***** AIR SYSTEM # 4 (AHU_4) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION	FLOOR	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
4	Delano Hall	81225	0	2,416,064	118,800	0	109,201
	4 PM AUGUST		0	24,672	0	0.00	1.34
ZONE PEAK TOTALS			0	2,416,064	118,800	0	109,201
TOTAL ZONES: 1			0	24,672	0	0.00	1.34

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
** ENTECH ENGINEERING ** READING, PA 19603
Walter Reed Med Ctr 01/05/95 PAGE 22
***** AIR SYSTEM # 4 (AHU_4) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_4 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.96 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE	SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION		SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR		SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT		SEN.LOSS:	0 BTUH	
RETURN DUCT		SEN.LOSS:	0 BTUH	
TOTAL SYSTEM		SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE	SPACE	SEN.GAIN:	2,401,214 BTUH	
INFILTRATION		SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN		SEN.GAIN:	0 BTUH	
SUPPLY DUCT		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:				2,401,214 BTUH

SUPPLY: 2,401,214 / (0.999 X 1.10 X 20) = (109,201 CFM)
SUMMER VENT OUTSIDE AIR (22.6% OF SUPPLY): (24,672 CFM)

RETURN DUCT		SEN.GAIN:	0 BTUH	
RETURN PLENUM		SEN.GAIN:	0 BTUH	
OUTSIDE AIR		SEN.GAIN:	461,133 BTUH (	24,672 CFM)
BLOW-THRU FAN		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:				461,133 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 2,862,347 BTUH

ZONE	SPACE	LAT.GAIN:	106,920 BTUH	
INFILTRATION		LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR		LAT.GAIN:	650,516 BTUH (	24,672 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:				757,436 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 3,619,783 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 301.65 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***

** ENTECH ENGINEERING **

READING, PA 19603

Walter Reed Med Ctr

01/05/95

PAGE 23

***** AIR SYSTEM # 5 (AHU_5) ZONE SUMMARY *****

N. ZONE - DESCRIPTION FLOOR	HTG.LOSS	SEN.GAIN	LAT.GAIN	HTG.CFM	CLG.CFM
NO. PEAK TIME & MONTH AREA	O.A. CFM	O.A. CFM	EXH. CFM	CFM/SF.	CFM/SF.
5 Admin/Computer T-2 55225	0	1,507,399	22,000	0	68,428
3 PM AUGUST	0	9,528	0	0.00	1.24
ZONE PEAK TOTALS	0	1,507,399	22,000	0	68,428
TOTAL ZONES: 1	0	9,528	0	0.00	1.24

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
** ENTECH ENGINEERING ** READING, PA 19603
Walter Reed Med Ctr 01/05/95 PAGE 24
***** AIR SYSTEM # 5 (AHU_5) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_5 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.99 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 3 PM IN AUGUST
OUTDOOR CONDITIONS: 93 DB, 75 WB, 101.84 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION	SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR	SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT	SEN.LOSS:	0 BTUH	
RETURN DUCT	SEN.LOSS:	0 BTUH	
TOTAL SYSTEM	SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE SPACE	SEN.GAIN:	1,504,649 BTUH	
INFILTRATION	SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN	SEN.GAIN:	0 BTUH	
SUPPLY DUCT	SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:			1,504,649 BTUH

SUPPLY: 1,504,649 / (0.999 X 1.10 X 20) = (68,428 CFM)
SUMMER VENT OUTSIDE AIR (13.9% OF SUPPLY): (9,528 CFM)

RETURN DUCT	SEN.GAIN:	0 BTUH	
RETURN PLENUM	SEN.GAIN:	0 BTUH	
OUTSIDE AIR	SEN.GAIN:	188,559 BTUH (	9,528 CFM)
BLOW-THRU FAN	SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:			188,559 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 1,693,208 BTUH

ZONE SPACE	LAT.GAIN:	19,800 BTUH	
INFILTRATION	LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR	LAT.GAIN:	240,685 BTUH (	9,528 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:			260,485 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 1,953,693 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 162.81 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING ** READING, PA 19603
 Walter Reed Med Ctr 01/05/95 PAGE 25
 ***** AIR SYSTEM # 6 (AHU_6) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION	FLOOR	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
6	Abrams Hall Bldg.	1176400	0	3,667,935	110,000	0	166,183
	5 PM AUGUST		0	20,530	0	0.00	0.94
ZONE PEAK TOTALS			0	3,667,935	110,000	0	166,183
TOTAL ZONES: 1			0	20,530	0	0.00	0.94

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING ** READING, PA 19603
 Walter Reed Med Ctr 01/05/95 PAGE 26
 ***** AIR SYSTEM # 6 (AHU_6) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_6 WITH CV (PROPORTION) TERMINALS
 SENSIBLE HEAT RATIO: 0.97 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
 OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE	SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION		SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR		SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT		SEN.LOSS:	0 BTUH	
RETURN DUCT		SEN.LOSS:	0 BTUH	
TOTAL SYSTEM		SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
 WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE	SPACE	SEN.GAIN:	3,654,185 BTUH	
INFILTRATION		SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN		SEN.GAIN:	0 BTUH	
SUPPLY DUCT		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:				3,654,185 BTUH

SUPPLY: 3,654,185 / (0.999 X 1.10 X 20) = (166,183 CFM)
 SUMMER VENT OUTSIDE AIR (12.3% OF SUPPLY): (20,530 CFM)

RETURN DUCT	SEN.GAIN:	0 BTUH	
RETURN PLENUM	SEN.GAIN:	0 BTUH	
OUTSIDE AIR	SEN.GAIN:	361,145 BTUH (	20,530 CFM)
BLOW-THRU FAN	SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:			361,145 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 4,015,330 BTUH

ZONE	SPACE	LAT.GAIN:	99,000 BTUH	
INFILTRATION		LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR		LAT.GAIN:	564,022 BTUH (	20,530 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:				663,022 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 4,678,352 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 389.86 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING **
 Walter Reed Med Ctr 01/05/95
 READING, PA 19603
 PAGE 27
 ***** AIR SYSTEM # 7 (AHU_7) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION	FLOOR	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.	
7	Guest House Bldg #	17424	0	598,827	26,400	0	27,083	
	5 PM AUGUST		0	2,400	0	0.00	1.55	
ZONE PEAK TOTALS			17,424	0	598,827	26,400	0	27,083
TOTAL ZONES: 1				0	2,400	0	0.00	1.55

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING ** READING, PA 19603
 Walter Reed Med Ctr 01/05/95 PAGE 28
 ***** AIR SYSTEM # 7 (AHU_7) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_7 WITH CV (PROPORTION) TERMINALS
 SENSIBLE HEAT RATIO: 0.96 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
 OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION	SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR	SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT	SEN.LOSS:	0 BTUH	
RETURN DUCT	SEN.LOSS:	0 BTUH	
TOTAL SYSTEM	SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
 WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE SPACE	SEN.GAIN:	595,527 BTUH	
INFILTRATION	SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN	SEN.GAIN:	0 BTUH	
SUPPLY DUCT	SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:			595,527 BTUH

SUPPLY AIR: 595,527 / (0.999 X 1.10 X 20) = (27,083 CFM)
 SUMMER VENT OUTSIDE AIR (8.86% OF SUPPLY): (2,400 CFM)

RETURN DUCT	SEN.GAIN:	0 BTUH	
RETURN PLENUM	SEN.GAIN:	0 BTUH	
OUTSIDE AIR	SEN.GAIN:	42,219 BTUH (	2,400 CFM)
BLOW-THRU FAN	SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:			42,219 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 637,746 BTUH

ZONE SPACE	LAT.GAIN:	23,760 BTUH	
INFILTRATION	LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR	LAT.GAIN:	65,935 BTUH (	2,400 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:			89,695 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 727,441 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 60.62 TONS

ZONE NO.	DESCRIPTION PEAK TIME & MONTH	FLOOR AREA	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
8	WRAIR Bldg #40 4 PM AUGUST	218089	0 0	5,547,441 193,881	110,000 0	0 0.00	251,659 1.15
ZONE PEAK TOTALS			0	5,547,441	110,000	0	251,659
TOTAL ZONES: 1			0	193,881	0	0.00	1.15

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
** ENTECH ENGINEERING ** READING, PA 19603
Walter Reed Med Ctr 01/05/95 PAGE 30
***** AIR SYSTEM # 8 (AHU_8) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_8 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.98 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION	SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR	SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT	SEN.LOSS:	0 BTUH	
RETURN DUCT	SEN.LOSS:	0 BTUH	
TOTAL SYSTEM	SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE SPACE	SEN.GAIN:	5,533,691 BTUH	
INFILTRATION	SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN	SEN.GAIN:	0 BTUH	
SUPPLY DUCT	SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:			5,533,691 BTUH

SUPPLY: 5,533,691 / (0.999 X 1.10 X 20) = (251,659 CFM)
SUMMER VENT OUTSIDE AIR (77.0% OF SUPPLY): (193,881 CFM)

RETURN DUCT	SEN.GAIN:	0 BTUH	
RETURN PLENUM	SEN.GAIN:	0 BTUH	
OUTSIDE AIR	SEN.GAIN:	3,623,741 BTUH (	193,881 CFM)
BLOW-THRU FAN	SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:			3,623,741 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 9,157,432 BTUH

ZONE SPACE	LAT.GAIN:	99,000 BTUH	
INFILTRATION	LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR	LAT.GAIN:	5,111,979 BTUH (	193,881 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:			5,210,979 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 14,368,411 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 1,197.37 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***

** ENTECH ENGINEERING **

READING, PA 19603

Walter Reed Med Ctr

01/05/95

PAGE 31

***** AIR SYSTEM # 9 (AHU_9) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION PEAK TIME & MONTH	FLOOR AREA	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
9	Fitness Ctr. Bldg.	34596	0	1,757,187	22,000	0	79,787
	5 PM AUGUST		0	7,516	0	0.00	2.31
ZONE PEAK TOTALS			0	1,757,187	22,000	0	79,787
TOTAL ZONES: 1			0	7,516	0	0.00	2.31

AIR HANDLER DESC: AHU_9 WITH CV (PROPORTION) TERMINALS
 SENSIBLE HEAT RATIO: 0.99 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
 OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE	SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION		SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR		SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT		SEN.LOSS:	0 BTUH	
RETURN DUCT		SEN.LOSS:	0 BTUH	
TOTAL SYSTEM		SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
 WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE	SPACE	SEN.GAIN:	1,754,437 BTUH	
INFILTRATION		SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN		SEN.GAIN:	0 BTUH	
SUPPLY DUCT		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:				1,754,437 BTUH

SUPPLY: 1,754,437 / (0.999 X 1.10 X 20) = (79,787 CFM)
 SUMMER VENT OUTSIDE AIR (9.42% OF SUPPLY): (7,516 CFM)

RETURN DUCT		SEN.GAIN:	0 BTUH	
RETURN PLENUM		SEN.GAIN:	0 BTUH	
OUTSIDE AIR		SEN.GAIN:	132,215 BTUH (	7,516 CFM)
BLOW-THRU FAN		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:				132,215 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 1,886,652 BTUH

ZONE	SPACE	LAT.GAIN:	19,800 BTUH	
INFILTRATION		LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR		LAT.GAIN:	206,488 BTUH (	7,516 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:				226,288 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 2,112,940 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 176.08 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING **
 Walter Reed Med Ctr 01/05/95
 READING, PA 19603
 PAGE 33
 ***** AIR SYSTEM # 10 (AHU_10) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION	FLOOR	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.	
10	AFIP Storage Bldg.	14641	0	310,328	16,500	0	14,019	
	6 PM AUGUST		0	1,500	0	0.00	0.96	
ZONE PEAK TOTALS			14,641	0	310,328	16,500	0	14,019
TOTAL ZONES: 1				0	1,500	0	0.00	0.96

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
** ENTECH ENGINEERING ** READING, PA 19603
Walter Reed Med Ctr 01/05/95 PAGE 34
***** AIR SYSTEM # 10 (AHU_10) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_10 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.95 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS INSIDE: 75 DB, 50% RH

BECAUSE OF THE DIVERSITY IN ZONE, PLENUM, AND VENT. LOADS, THE ZONE SENSIBLE
PEAK TIME IN AUGUST AT 6 PM IS DIFFERENT FROM THE TOTAL SYS. PEAK TIME
HENCE, THE AIR SYSTEM CFM WAS COMPUTED USING A ZONE SEN. LOAD OF 308,265

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION	SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR	SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT	SEN.LOSS:	0 BTUH	
RETURN DUCT	SEN.LOSS:	0 BTUH	
TOTAL SYSTEM	SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE SPACE	SEN.GAIN:	304,501 BTUH	
INFILTRATION	SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN	SEN.GAIN:	0 BTUH	
SUPPLY DUCT	SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:			304,501 BTUH

SUPPLY AIR: 308,265 / (0.999 X 1.10 X 20) = (14,019 CFM)
SUMMER VENT OUTSIDE AIR (10.7% OF SUPPLY): (1,500 CFM)

RETURN DUCT	SEN.GAIN:	0 BTUH	
RETURN PLENUM	SEN.GAIN:	0 BTUH	
OUTSIDE AIR	SEN.GAIN:	26,387 BTUH (	1,500 CFM)
BLOW-THRU FAN	SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:			26,387 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 330,888 BTUH

ZONE SPACE	LAT.GAIN:	14,850 BTUH	
INFILTRATION	LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR	LAT.GAIN:	41,210 BTUH (	1,500 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:			56,060 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 386,948 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 32.25 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING **
 Walter Reed Med Ctr
 01/05/95
 READING, PA 19603
 PAGE 35
 ***** AIR SYSTEM # 11 (AHU_11) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION	FLOOR	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
11	AFIP Path Lab Bldg	348690	0	5,660,529	110,000	0	256,802
	5 PM AUGUST		0	197,707	0	0.00	0.74
ZONE PEAK TOTALS			0	5,660,529	110,000	0	256,802
TOTAL ZONES: 1			0	197,707	0	0.00	0.74

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
** ENTECH ENGINEERING ** READING, PA 19603
Walter Reed Med Ctr 01/05/95 PAGE 36
***** AIR SYSTEM # 11 (AHU_11) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_11 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.98 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE	SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION		SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR		SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT		SEN.LOSS:	0 BTUH	
RETURN DUCT		SEN.LOSS:	0 BTUH	
TOTAL SYSTEM		SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE	SPACE	SEN.GAIN:	5,646,779 BTUH	
INFILTRATION		SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN		SEN.GAIN:	0 BTUH	
SUPPLY DUCT		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:				5,646,779 BTUH

SUPPLY: 5,646,779 / (0.999 X 1.10 X 20) = (256,802 CFM)
SUMMER VENT OUTSIDE AIR (77.0% OF SUPPLY): (197,707 CFM)

RETURN DUCT		SEN.GAIN:	0 BTUH	
RETURN PLENUM		SEN.GAIN:	0 BTUH	
OUTSIDE AIR		SEN.GAIN:	3,477,883 BTUH (	197,707 CFM)
BLOW-THRU FAN		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:				3,477,883 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 9,124,662 BTUH

ZONE	SPACE	LAT.GAIN:	99,000 BTUH	
INFILTRATION		LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR		LAT.GAIN:	5,431,616 BTUH (	197,707 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:				5,530,616 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 14,655,278 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 1,221.27 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING **
 Walter Reed Med Ctr 01/05/95
 READING, PA 19603
 PAGE 37
 ***** AIR SYSTEM # 12 (AHU_12) ZONE SUMMARY *****

ZONE NO.	DESCRIPTION PEAK TIME & MONTH	FLOOR AREA	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
12	MRI Building #5 4 PM AUGUST	8836	0 0	242,689 10,962	13,200 0	0 0.00	10,962 1.24
ZONE PEAK TOTALS		8,836	0	242,689	13,200	0	10,962
TOTAL ZONES: 1			0	10,962	0	0.00	1.24

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
** ENTECH ENGINEERING ** READING, PA 19603
Walter Reed Med Ctr 01/05/95 PAGE 38
***** AIR SYSTEM # 12 (AHU_12) TOTAL LOAD SUMMARY *****

AIR HANDLER DESC: AHU_12 WITH CV (PROPORTION) TERMINALS

SENSIBLE HEAT RATIO: 0.95 ----- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING

AIR SYSTEM PEAK TIME: 4 PM IN AUGUST

OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS INSIDE: 75 DB, 50% RH

SUMMER: VENT CONTROLS OUTSIDE AIR ----- WINTER: NONE CONTROLS OUTSIDE AIR

ZONE	SPACE	SEN.LOSS:	0 BTUH	
INFILTRATION		SEN.LOSS:	0 BTUH (	0 CFM)
OUTSIDE AIR		SEN.LOSS:	0 BTUH (	0 CFM)
SUPPLY DUCT		SEN.LOSS:	0 BTUH	
RETURN DUCT		SEN.LOSS:	0 BTUH	
TOTAL SYSTEM		SEN.LOSS:		0 BTUH

SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = (0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): (0 CFM)

ZONE	SPACE	SEN.GAIN:	241,039 BTUH	
INFILTRATION		SEN.GAIN:	0 BTUH (	0 CFM)
DRAW-THRU FAN		SEN.GAIN:	0 BTUH	
SUPPLY DUCT		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:				241,039 BTUH

SUPPLY AIR: 241,039 / (0.999 X 1.10 X 20) = (10,962 CFM)
SUMMER VENT OUTSIDE AIR (100% OF SUPPLY): (10,962 CFM)

RETURN DUCT		SEN.GAIN:	0 BTUH	
RETURN PLENUM		SEN.GAIN:	0 BTUH	
OUTSIDE AIR		SEN.GAIN:	204,886 BTUH (	10,962 CFM)
BLOW-THRU FAN		SEN.GAIN:	0 BTUH	
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:				204,886 BTUH

TOTAL SEN.GAIN ON AIR HANDLING SYSTEM: 445,925 BTUH

ZONE	SPACE	LAT.GAIN:	11,880 BTUH	
INFILTRATION		LAT.GAIN:	0 BTUH (	0 CFM)
OUTSIDE AIR		LAT.GAIN:	289,030 BTUH (	10,962 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:				300,910 BTUH

TOTAL SYSTEM SENSIBLE AND LATENT GAIN: 746,835 BTUH

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 62.24 TONS

VELOPE REPORT USING SUMMER U-FACTORS:

MATERIAL TYPES		GROSS AREA	GLASS AREA	NET AREA	-U-FACTOR	AREA x UFACTOR	AVERAGE UFACTOR
ROOF	1	151502.0	0.0	151502.0	0.100	15150.200	0.100
	2	179741.0	0.0	179741.0	0.100	17974.100	0.100
	3	29025.0	0.0	29025.0	0.100	2902.500	0.100
	4	200966.0	0.0	200966.0	0.150	30144.900	0.150
	5	38218.0	0.0	38218.0	0.500	19109.000	0.500
TOT.ROOF		599452.0	0.0	599452.0	N/A	85280.700	0.142
WALL	1	389984.0	64848.0	325136.0	0.250	81284.000	0.250
	2	542868.0	119286.0	423582.0	0.090	38122.380	0.090
	3	14160.0	830.0	13330.0	0.100	1333.000	0.100
	4	295665.0	34683.0	260982.0	0.220	57416.040	0.220
TOT.WALL		1242677.0	219647.0	1023030.0	N/A	178155.420	0.174
GLASS	1	44862.0	N/A	44862.0	1.100	49348.200	1.100
	2	2247.0	N/A	2247.0	0.550	1235.850	0.550
	3	52422.0	N/A	52422.0	1.100	57664.200	1.100
	4	120116.0	N/A	120116.0	0.550	66063.800	0.550
TOT.GLAS		219647.0	N/A	219647.0	N/A	174312.050	0.794
TOTALS				1842129.0	N/A	437748.170	0.238

WALL DIRECTION	WALL AREA	GLASS AREA	WALL NET AREA	W.AVG U-FAC	GLASS AVG U-FACTOR	GLASS AVG SHD.COEFF
N	313866.0	58409.0	255457.0	0.180	0.817	0.640
NE	0.0	0.0	0.0	0.000	0.000	0.000
E	310722.0	52385.0	258337.0	0.169	0.770	0.640
SE	0.0	0.0	0.0	0.000	0.000	0.000
S	306957.0	56534.0	250423.0	0.178	0.813	0.640
SW	0.0	0.0	0.0	0.000	0.000	0.000
W	311132.0	52319.0	258813.0	0.169	0.771	0.640
NW	0.0	0.0	0.0	0.000	0.000	0.000
TOTALS	1242677.0	219647.0	1023030.0	0.174	0.794	0.640

BUILDING PEAKS IN AUGUST AT 5 PM

BLDG. LOAD DESCRIPTIONS	AREA QUAN	SEN. LOSS	%TOT LOSS	LAT. GAIN	+	SEN. GAIN	= TOTAL GAIN	%TOT GAIN
ROOF	599452	0	0.00	0		5803284	5803284	3.89
WALL	1023030	0	0.00	0		4049538	4049538	2.72
GLASS	219647	0	0.00	0		12945924	12945924	8.68
SKIN LOADS	1842129	0	0.00	0		22798746	22798746	15.29
LIGHTING	6660940	0	0.00	0		24985189	24985189	16.75
EQUIPMENT	3688486	0	0.00	0		13835513	13835513	9.28
PEOPLE	5009	0	0.00	1101870		1377338	2479208	1.66
PARTITION	0	0	0.00	0		0	0	0.00
VENT	0 1887029	0	0.00	51842461		33194914	85037375	57.02
INFL	0 0	0	0.00	0		0	0	0.00
DRAW-THRU FAN		0	0.00	0		0	0	0.00
BLOW-THRU FAN		0	0.00	0		0	0	0.00
SUPPLY DUCT		0	0.00	0		0	0	0.00
RETURN DUCT		0	0.00	0		0	0	0.00
BUILDING TOTALS		0	100.00	52944331		96191700	149136031	100.00

BUILDING SUMMARY LOAD DESCRIPTIONS	SEN. LOSS	%TOT LOSS	LAT. GAIN	+	SEN. GAIN	= TOTAL GAIN	%TOT GAIN
VENTILATION	0	0.00	51842461		33194914	85037375	57.02
INFILTRATION	0	0.00	0		0	0	0.00
ZONE LOADS	0	0.00	1101870		62996786	64098656	42.98
PLENUM LOADS	0	0.00	0		0	0	0.00
FAN & DUCT LOADS	0	0.00	0		0	0	0.00
BUILDING TOTALS	0	100.00	52944331		96191700	149136031	100.00

TOTAL BUILDING SUPPLY AIR (BASED ON A 19.9 TD): 2,887,380 CFM
 TOTAL BUILDING VENT AIR (65.34% OF SUPPLY): 1,887,029 CFM

TOTAL CONDITIONED AIR SPACE: 3,803,651 SQ.FT
 SUPPLY AIR CFM/SQ.FT. OF CONDITIONED SPACE: 0.7591 CFM/SQ.FT
 SQ.FT OF CONDITIONED AIR SPACE PER TON: 306.0549 SQ.FT/TON
 TONNAGE PER SQ.FT OF CONDITIONED AIR SPACE: 0.0033 TONS/SQ.FT

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 12,428.00 TONS

for table 5.4.3

EXISTING

BLOG 48

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/13/1995 8: 8: 7

PDL RUN 1 READING, PA 19603

REP 2 = HOURLY-REPORT

PAGE 1- 1

MMDDHH	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
----	(1)	----	(3)	----	(6)
----	(1)	----	(3)	----	(20)
----	(1)	----	(3)	----	(21)
MONTHLY SUMMARY (JAN)					
MN	7604153.	3252076.	1.	0.	400831.
MX	23643312.	6504046.	2.	370458.	801662.
SM	11505107968.	3749958912.	1154.	127587952.	462559136.
AV	15463855.	5040268.	2.	171489.	621719.
MONTHLY SUMMARY (FEB)					
MN	7725983.	3252094.	1.	0.	400831.
MX	23764504.	6503864.	2.	371083.	801662.
SM	10840133632.	3472866048.	1069.	129093968.	428488512.
AV	16131151.	5167956.	2.	192104.	637632.
MONTHLY SUMMARY (MAR)					
MN	9393389.	3252037.	1.	0.	400831.
MX	30042880.	6504056.	2.	407908.	801662.
SM	13259436032.	4118991360.	1269.	172123728.	508654784.
AV	17821822.	5536279.	2.	231349.	683676.
MONTHLY SUMMARY (APR)					
MN	9907528.	3252039.	1.	0.	400831.
MX	30345800.	6503964.	2.	683378.	801662.
SM	14343021568.	4221911552.	1303.	199862448.	522283104.
AV	19920864.	5863766.	2.	277587.	725393.
MONTHLY SUMMARY (MAY)					
MN	11302996.	3252055.	1.	0.	400831.
MX	30345800.	6503863.	2.	899035.	801662.
SM	18089349120.	4613040128.	1436.	285297536.	575593600.
AV	24313642.	6200323.	2.	383464.	773647.
MONTHLY SUMMARY (JUN)					
MN	13956871.	3252231.	1.	0.	400831.
MX	45523664.	10372393.	3.	1021712.	1202494.
SM	27223304192.	6487430656.	2009.	533159136.	805269888.
AV	37810144.	9010320.	3.	740499.	1118430.
MONTHLY SUMMARY (JUL)					
MN	15250850.	6271049.	2.	0.	801662.
MX	60615512.	14523526.	4.	1021712.	1603325.
SM	33193576448.	7658600960.	2313.	638714304.	927122368.
AV	44615024.	10293818.	3.	858487.	1246132.

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_2 = HOURLY-REPORT
PAGE 2- 1

EZDOS - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/13/1995

8: 8: 7

	OPEN-CEN T-CHLR LOAD BTU/HR ---- (1)	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR ---- (3)	OPEN-CEN T-CHLR SIZES RUNNING BTU/HR ---- (6)	CERAMIC- TWR FAN ELEC BTU/HR ---- (20)	CERAMIC- TWR PUMP ELEC BTU/HR ---- (21)
MONTHLY SUMMARY (AUG)					
MN	14565689.	3252186.	1.	0.	400831.
MX	60555920.	14368309.	4.	1021712.	1603325.
SM	33017518080.	7731707904.	2353.	628720960.	943155648.
AV	44378384.	10392081.	3.	845055.	1267682.
MONTHLY SUMMARY (SEP)					
MN	12875649.	3252064.	1.	0.	400831.
MX	45523576.	10303421.	3.	1021712.	1202494.
SM	23978721280.	5959486464.	1843.	453102656.	738731968.
AV	33303780.	8277065.	3.	629309.	1026017.
MONTHLY SUMMARY (OCT)					
MN	11159649.	3252034.	1.	0.	400831.
MX	30345800.	6504028.	2.	704887.	801662.
SM	16539260928.	4425136128.	1373.	235728528.	550341184.
AV	22230190.	5947764.	2.	316839.	739706.
MONTHLY SUMMARY (NOV)					
MN	9933108.	3252054.	1.	0.	400831.
MX	30345800.	6503928.	2.	1004106.	801662.
SM	13110975488.	3914056960.	1208.	182398672.	484204064.
AV	18209688.	5436190.	2.	253331.	672506.
MONTHLY SUMMARY (DEC)					
MN	8500417.	3252059.	1.	0.	400831.
MX	25219452.	6503962.	2.	384035.	801662.
SM	11670292480.	3772397056.	1161.	132967536.	465364960.
AV	15685877.	5070426.	2.	178720.	625491.
YEARLY SUMMARY					
MN	7604153.	3252034.	1.	0.	400831.
MX	60615512.	14523526.	4.	1021712.	1603325.
SM	226770681856.	60125581312.	18491.	3718757376.	7411769344.
AV	25887064.	6863651.	2.	424516.	846092.

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_3 = HOURLY-REPORT
PAGE 1- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/13/1995 8: 8: 7

MMDDHH	STM-BOIL ER LOAD BTU/HR ---- (1)	STM-BOIL ER ELECTRIC USE BTU/HR ---- (3)	STM-BOIL ER FUEL USE BTU/HR ---- (4)	CTANK-ST ORAGE ENERGY RELEASED BTU/HR ---- (1)	CTANK-ST ORAGE ENERGY STORED BTU/HR ---- (4)	CTANK-ST ORAGE SIZES RUNNING BTU/HR ---- (6)	CTANK-ST ORAGE CAPACITY RUNNING BTU/HR ---- (7)	CTANK-ST ORAGE ENERGY AVAILABL BTU/HR ---- (8)
MONTHLY SUMMARY (JAN)								
MN	7461002.	656568.	12680013.	0.	0.	0.	0.	0.
MX	110982520.	2468484.	144533040.	0.	0.	0.	0.	0.
SM	45908905984.	1787100160.	65255133184.	0.	0.	0.	0.	0.
AV	61705520.	2402016.	87708512.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (FEB)								
MN	3002731.	264240.	5103157.	0.	0.	0.	0.	0.
MX	112203808.	2468484.	145864944.	0.	0.	0.	0.	0.
SM	36600700928.	1578008320.	52917821440.	0.	0.	0.	0.	0.
AV	54465328.	2348227.	78746760.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (MAR)								
MN	1151241.	101309.	1956540.	0.	0.	0.	0.	0.
MX	80398288.	2468484.	110284136.	0.	0.	0.	0.	0.
SM	28631027712.	1555896960.	43386642432.	0.	0.	0.	0.	0.
AV	38482564.	2091259.	58315380.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (APR)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	68020232.	2468484.	95933952.	0.	0.	0.	0.	0.
SM	16374918144.	1118231936.	26082148352.	0.	0.	0.	0.	0.
AV	22742942.	1553100.	36225208.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	54236504.	2468484.	79622552.	0.	0.	0.	0.	0.
SM	6847094784.	528316896.	11238974464.	0.	0.	0.	0.	0.
AV	9203084.	710103.	15106148.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	17738562.	1560994.	30146780.	0.	0.	0.	0.	0.
SM	812135552.	71467920.	1380228480.	0.	0.	0.	0.	0.
AV	1127966.	99261.	1916984.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	11628714.	1023327.	19763060.	0.	0.	0.	0.	0.
SM	148630848.	13079516.	252598928.	0.	0.	0.	0.	0.
AV	199773.	17580.	339515.	0.	0.	0.	0.	0.

ENTECH ENGINEERING SZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/16/1995 16:19:27 PDL RUN
 1
 READING, PA 19603
 REP_1 = HOURLY-REPORT
 PAGE 1- 1

BLDG 49
 EXISTING

MMDDHH	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
	SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F
	----(2)	----(9)	----(15)	----(1)	----(2)
MONTHLY SUMMARY (APR)					
MN	0.	0.	378.	28.0	24.000
MX	3949290.	4110538.	378.	83.0	66.000
SM	295337856.	339681152.	272160.	37106.0	32228.000
AV	410191.	471779.	378.	51.5	44.761
MONTHLY SUMMARY (MAY)					
MN	0.	0.	378.	35.0	29.000
MX	4888414.	5049663.	378.	87.0	69.000
SM	960951552.	1051734272.	281232.	45840.0	39784.000
AV	1291602.	1413621.	378.	61.6	53.473
MONTHLY SUMMARY (JUN)					
MN	0.	0.	365.	52.0	47.000
MX	7492563.	7653812.	391.	96.0	78.000
SM	2169961984.	2284448512.	267792.	52340.0	46226.000
AV	3013836.	3172845.	372.	72.7	64.203
MONTHLY SUMMARY (JUL)					
MN	440863.	602111.	365.	56.0	54.000
MX	8057270.	7775137.	391.	96.0	80.000
SM	2916313344.	3036282368.	278424.	56668.0	51157.000
AV	3919776.	4081025.	374.	76.2	68.759
MONTHLY SUMMARY (AUG)					
MN	0.	0.	365.	53.0	53.000
MX	7492351.	7653599.	391.	95.0	79.000
SM	2625056512.	2744219392.	276552.	55501.0	50408.000
AV	3528302.	3688467.	372.	74.6	67.753
MONTHLY SUMMARY (SEP)					
MN	0.	0.	365.	46.0	43.000
MX	6769916.	6931164.	391.	94.0	77.000
SM	1667496064.	1773436032.	269040.	49421.0	44029.000
AV	2315967.	2463106.	374.	68.6	61.151
MONTHLY SUMMARY (OCT)					
MN	0.	0.	378.	32.0	30.000
MX	4130478.	4291727.	378.	82.0	67.000
SM	542175168.	609093248.	281232.	42445.0	38210.000
AV	728730.	818674.	378.	57.0	51.358

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_1 = HOURLY-REPORT
PAGE 2- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOB-2.1D 5/16/1995 16:19:27

PLANT PLANT PLANT GLOBAL GLOBAL
SYS COOL TOTAL COOLING AMBIENT AMBIENT
LOAD COOLING LA PTR DRYBULB WETBULB
BTU/HR BTU/HR F F
---- (2) ---- (9) ---- (15) ---- (1) ---- (2)
MONTHLY SUMMARY (NOV)
MN 0. 0. 391. 28.0 25.000
MX 4789322. 4950570. 391. 82.0 73.000
SM 177776352. 197771168. 281520. 33256.0 29843.000
AV 246912. 274682. 391. 46.2 41.449
YEARLY SUMMARY
MN 0. 0. 365. 28.0 24.000
MX 8057270. 7775137. 391. 96.0 80.000
SM 11355069440. 12036666368. 2207952. 372577.0 331885.000
AV 1939049. 2055442. 377. 63.6 56.674

ENTECH ENGINEERING
 PDL RUN 1
 READING, PA 19603
 REP_2 = HOURLY-REPORT
 PAGE 1- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/16/1995 16:19:27

MMDDHH	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
	----(1)	----(3)	----(6)	----(20)	----(21)
MONTHLY SUMMARY (APR)					
MN	0.	0.	0.	0.	0.
MX	4110538.	894287.	1.	104225.	217117.
SM	339681152.	122080104.	275.	7331106.	59707152.
AV	471779.	169556.	0.	10182.	82927.
MONTHLY SUMMARY (MAY)					
MN	0.	0.	0.	0.	0.
MX	5049663.	1067862.	1.	144167.	217117.
SM	1051734272.	312835776.	563.	29762394.	122236856.
AV	1413621.	420478.	1.	40003.	164297.
MONTHLY SUMMARY (JUN)					
MN	0.	0.	0.	0.	0.
MX	7653812.	1871513.	1.	144167.	217117.
SM	2284448512.	566244160.	710.	67460800.	154153040.
AV	3172845.	786450.	1.	93696.	214101.
MONTHLY SUMMARY (JUL)					
MN	602111.	352811.	1.	0.	217117.
MX	7775137.	1985564.	1.	144167.	217117.
SM	3036282368.	708660672.	744.	90573768.	161534992.
AV	4081025.	952501.	1.	121739.	217117.
MONTHLY SUMMARY (AUG)					
MN	0.	0.	0.	0.	0.
MX	7653599.	1903940.	1.	144167.	217117.
SM	2744219392.	652442560.	739.	84350000.	160449408.
AV	3688467.	876939.	1.	113374.	215658.
MONTHLY SUMMARY (SEP)					
MN	0.	0.	0.	0.	0.
MX	6931164.	1612259.	1.	144167.	217117.
SM	1773436032.	457501056.	657.	53782748.	142645840.
AV	2463106.	635418.	1.	74698.	198119.
MONTHLY SUMMARY (OCT)					
MN	0.	0.	0.	0.	0.
MX	4291727.	926081.	1.	133522.	217117.
SM	609093248.	202599312.	415.	16176753.	90103528.
AV	818674.	272311.	1.	21743.	121107.

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_2 ■ HOURLY-REPORT
PAGE 2- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/16/1995 16:19:27

OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
---- (1)	---- (3)	---- (6)	---- (20)	---- (21)
MONTHLY SUMMARY (NOV)				
MN 0.	0.	0.	0.	0.
MX 4950570.	1099886.	1.	144167.	217117.
SM 197771168.	61175368.	124.	6388580.	26922498.
AV 274682.	84966.	0.	8873.	37392.
YEARLY SUMMARY				
MN 0.	0.	0.	0.	0.
MX 7775137.	1985564.	1.	144167.	217117.
SM 12036666368.	3083538944.	4227.	355826176.	917753280.
AV 2055442.	526561.	1.	60763.	156720.

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54 for
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ENTECH ENGINEERING
READING, PA 19603
REP_1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/16/1995 11:53:59 PDL RUN 1

PAGE 1- 1

MMDDHH	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
	SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F
----	(2)	----	(9)	----	(15)
----	(1)	----	(1)	----	(2)
MONTHLY SUMMARY (APR)					
MN	0.	0.	378.	28.0	24.000
MX	6678577.	6056815.	378.	83.0	66.000
SM	569309184.	666091520.	272160.	37106.0	32228.000
AV	790707.	925127.	378.	51.5	44.761
MONTHLY SUMMARY (MAY)					
MN	0.	0.	378.	35.0	29.000
MX	8627119.	28802000.	378.	87.0	69.000
SM	1806623744.	1990971008.	281232.	45840.0	39784.000
AV	2428258.	2676036.	378.	61.6	53.473
MONTHLY SUMMARY (JUN)					
MN	0.	0.	365.	52.0	47.000
MX	13404447.	67587776.	391.	96.0	78.000
SM	3212249856.	3433159936.	267792.	52340.0	46226.000
AV	4461458.	4768278.	372.	72.7	64.203
MONTHLY SUMMARY (JUL)					
MN	5387.	312632.	365.	56.0	54.000
MX	15352476.	97511728.	391.	96.0	80.000
SM	3741261568.	3969853184.	278424.	56668.0	51157.000
AV	5028578.	5335824.	374.	76.2	68.759
MONTHLY SUMMARY (AUG)					
MN	2678.	309923.	365.	53.0	53.000
MX	13563697.	78027232.	391.	95.0	79.000
SM	3941834752.	4170426112.	276552.	55501.0	50408.000
AV	5298165.	5605412.	372.	74.6	67.753
MONTHLY SUMMARY (SEP)					
MN	0.	0.	365.	46.0	43.000
MX	11111226.	31635978.	391.	94.0	77.000
SM	2351118336.	2562195712.	269040.	49421.0	44029.000
AV	3265442.	3558605.	374.	68.6	61.151
MONTHLY SUMMARY (OCT)					
MN	0.	0.	378.	32.0	30.000
MX	7297984.	5965099.	378.	82.0	67.000
SM	1160435712.	1314673024.	281232.	42445.0	38210.000
AV	1559725.	1767034.	378.	57.0	51.358

BLDG 54
EXISTING

ENTECH ENGINEERING
 READING, PA 19603
 REP_1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/16/1995 11:53:59 PDL RUN 1

PAGE 2- 1

PLANT	PLANT	PLANT	GLOBAL	GLOBAL
SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F
----(2)	----(9)	----(15)	----(1)	----(2)
MONTHLY SUMMARY (NOV)				
MN 0.	0.	391.	28.0	25.000
MX 11050253.	78542768.	391.	82.0	73.000
SM 544744256.	596054272.	281520.	33256.0	29843.000
AV 756589.	827853.	391.	46.2	41.449
YEARLY SUMMARY				
MN 0.	0.	365.	28.0	24.000
MX 15352476.	97511728.	391.	96.0	80.000
SM 17327577088.	18703425536.	2207952.	372577.0	331885.000
AV 2958944.	3193891.	377.	63.6	56.674

MMDDHH	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
	----(1)	----(3)	----(6)	----(20)	----(21)
MONTHLY SUMMARY (APR)					
MN	0.	0.	0.	0.	0.
MX	5447115.	1183855.	1.	132139.	145299.
SM	665413248.	362954784.	315.	5313931.	45769104.
AV	924185.	504104.	0.	7380.	63568.
MONTHLY SUMMARY (MAY)					
MN	0.	0.	0.	0.	0.
MX	5500079.	1183805.	1.	193618.	145299.
SM	1906119424.	694871872.	600.	31524016.	87179232.
AV	2561989.	933968.	1.	42371.	117176.
MONTHLY SUMMARY (JUN)					
MN	0.	0.	0.	0.	0.
MX	13711695.	3921470.	3.	266700.	435896.
SM	3300562944.	2005208576.	1773.	116658864.	257614560.
AV	4584115.	2785012.	2.	162026.	357798.
MONTHLY SUMMARY (JUL)					
MN	312632.	709564.	1.	0.	145299.
MX	15617988.	4042675.	3.	266700.	435896.
SM	3773556480.	1965745408.	1704.	139103680.	247588944.
AV	5071985.	2642131.	2.	186967.	332781.
MONTHLY SUMMARY (AUG)					
MN	309923.	703423.	1.	0.	145299.
MX	13870943.	3972099.	3.	266700.	435896.
SM	3842631936.	2104744320.	1848.	145569088.	268511968.
AV	5164828.	2828958.	2.	195657.	360903.
MONTHLY SUMMARY (SEP)					
MN	0.	0.	0.	0.	0.
MX	10656592.	3792781.	3.	266700.	435896.
SM	2528696064.	1796103168.	1613.	93943840.	234366800.
AV	3512078.	2494588.	2.	130478.	325509.
MONTHLY SUMMARY (OCT)					
MN	0.	0.	0.	0.	0.
MX	5481423.	1183834.	1.	178071.	145299.
SM	1314011904.	579340032.	502.	18693754.	72939960.
AV	1766145.	778683.	1.	25126.	98038.

	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (6)	---- (20)	---- (21)
MONTHLY SUMMARY (NOV)					
MN	0.	0.	0.	0.	0.
MX	5500079.	1183605.	1.	243631.	145299.
SM	459173568.	192691984.	167.	9159945.	24264888.
AV	637741.	267628.	0.	12722.	33701.
YEARLY SUMMARY					
MN	0.	0.	0.	0.	0.
MX	15617988.	4042675.	3.	266700.	435896.
SM	17790164992.	9701660672.	8522.	559967104.	1238235392.
AV	3037938.	1656704.	1.	95623.	211447.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 5/19/1995 14:23:40 PDL
 RUN 1
 READING, PA 19603
 REP_1 = HOURLY-REPORT
 PAGE 1- 1

MMDH	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
	SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F
	----(2)	----(9)	----(15)	----(1)	----(2)
MONTHLY SUMMARY (JAN)					
MN	3507775.	4347606.	381.	6.0	4.000
MX	5432509.	6272340.	381.	59.0	56.000
SM	2670228736.	3295062272.	283464.	22956.0	20501.000
AV	3589017.	4428847.	381.	30.9	27.555
MONTHLY SUMMARY (FEB)					
MN	3507647.	4347478.	381.	6.0	4.000
MX	6370432.	7210263.	381.	62.0	56.000
SM	2449467648.	3013833984.	256032.	23273.0	21225.000
AV	3645041.	4484872.	381.	34.6	31.585
MONTHLY SUMMARY (MAR)					
MN	3500408.	4340239.	381.	22.0	18.000
MX	12513527.	13353358.	381.	75.0	62.000
SM	2965171456.	3590005504.	283464.	31630.0	27192.000
AV	3985446.	4825276.	381.	42.5	36.548
MONTHLY SUMMARY (APR)					
MN	3523148.	4362979.	381.	28.0	24.000
MX	13320814.	14160645.	381.	83.0	66.000
SM	3555087104.	4159764992.	274320.	37106.0	32228.000
AV	4937621.	5777452.	381.	51.5	44.761
MONTHLY SUMMARY (MAY)					
MN	3505828.	4345659.	381.	35.0	29.000
MX	21371302.	22211132.	381.	87.0	69.000
SM	5595591168.	6220425216.	283464.	45840.0	39784.000
AV	7520956.	8360787.	381.	61.6	53.473
MONTHLY SUMMARY (JUN)					
MN	3277467.	4117297.	394.	52.0	47.000
MX	38736448.	37207440.	394.	96.0	78.000
SM	9318824960.	9923502080.	283680.	52340.0	46226.000
AV	12942812.	13782642.	394.	72.7	64.203
MONTHLY SUMMARY (JUL)					
MN	3184950.	4024781.	394.	56.0	54.000
MX	41964740.	36485172.	394.	96.0	80.000
SM	12194013184.	12818844672.	293136.	56668.0	51157.000
AV	16389803.	17229630.	394.	76.2	68.759

ALT #4
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 WATER PLANTS

ENTECH ENGINEERING
 PDL RUN 1
 READING, PA 19603
 REP_1 = HOURLY-REPORT
 PAGE 2- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/19/1995 14:23:40

PLANT	PLANT	PLANT	GLOBAL	GLOBAL
SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F
---- (2)	---- (9)	---- (15)	---- (1)	---- (2)
MONTHLY SUMMARY (AUG)				
MN 4067420.	4907251.	394.	53.0	53.000
MX 39645848.	36878116.	394.	95.0	79.000
SM 11267466240.	11892299776.	293136.	55501.0	50408.000
AV 15144444.	15984274.	394.	74.6	67.753
MONTHLY SUMMARY (SEP)				
MN 3613491.	4453322.	394.	46.0	43.000
MX 33231828.	34071660.	394.	94.0	77.000
SM 7730153472.	8334830592.	283680.	49421.0	44029.000
AV 10736324.	11576154.	394.	68.6	61.151
MONTHLY SUMMARY (OCT)				
MN 3178808.	4018639.	394.	32.0	30.000
MX 16213375.	17053206.	394.	82.0	67.000
SM 4628574208.	5253408256.	293136.	42445.0	38210.000
AV 6221202.	7061033.	394.	57.0	51.358
MONTHLY SUMMARY (NOV)				
MN 3501214.	4341045.	381.	28.0	25.000
MX 25716454.	26556284.	381.	82.0	73.000
SM 3454401024.	4059079424.	274320.	33256.0	29843.000
AV 4797779.	5637611.	381.	46.2	41.449
MONTHLY SUMMARY (DEC)				
MN 3494966.	4334797.	381.	15.0	13.000
MX 6649398.	7489228.	381.	62.0	58.000
SM 2679423232.	3304257536.	283464.	26096.0	23480.000
AV 3601375.	4441207.	381.	35.1	31.559
YEARLY SUMMARY				
MN 3178808.	4018639.	381.	6.0	4.000
MX 41964740.	37207440.	394.	96.0	80.000
SM 68508405760.	75865317376.	3385296.	476532.0	424283.000
AV 7820595.	8660424.	386.	54.4	48.434

ENTECH ENGINEERING
 PDL RUN 1
 READING, PA 19603
 REP 2 = HOURLY-REPORT
 PAGE 1- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/19/1995 14:23:40

MMDDHH	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (6)	---- (20)	---- (21)
MONTHLY SUMMARY (JAN)					
MN	4347606.	1480135.	3.	0.	601247.
MX	6272340.	1609680.	3.	132334.	601247.
SM	3295062272.	1105138816.	2232.	2569547.	447327584.
AV	4428847.	1485402.	3.	3454.	601247.
MONTHLY SUMMARY (FEB)					
MN	4347478.	1480127.	3.	0.	601247.
MX	7210263.	1677913.	3.	148251.	601247.
SM	3013833984.	1000712320.	2016.	3200026.	404037824.
AV	4484872.	1489155.	3.	4762.	601247.
MONTHLY SUMMARY (MAR)					
MN	4340239.	1479666.	3.	0.	601247.
MX	13353358.	2206812.	3.	249271.	601247.
SM	3590005504.	1126042624.	2232.	15681849.	447327584.
AV	4825276.	1513498.	3.	21078.	601247.
MONTHLY SUMMARY (APR)					
MN	4362979.	1481114.	3.	0.	601247.
MX	14160645.	2286817.	3.	294167.	601247.
SM	4159764992.	1139595648.	2160.	45076252.	432897664.
AV	5777452.	1582772.	3.	62606.	601247.
MONTHLY SUMMARY (MAY)					
MN	4345659.	1480011.	3.	0.	601247.
MX	22211132.	3216442.	3.	455913.	601247.
SM	6220425216.	1331934080.	2232.	115800728.	447327584.
AV	8360787.	1790234.	3.	155646.	601247.
MONTHLY SUMMARY (JUN)					
MN	4117297.	1465581.	3.	0.	601247.
MX	37207440.	6210795.	3.	455913.	601247.
SM	9923502080.	1731901184.	2160.	213461584.	432897664.
AV	13782642.	2405418.	3.	296474.	601247.
MONTHLY SUMMARY (JUL)					
MN	4024781.	1459791.	3.	0.	601247.
MX	36485172.	6239734.	3.	455913.	601247.
SM	12818844672.	2141067136.	2232.	273153824.	447327584.
AV	17229630.	2877779.	3.	367142.	601247.

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_2 = HOURLY-REPORT
PAGE 2- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/19/1995 14:23:40

	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (6)	---- (20)	---- (21)
MONTHLY SUMMARY (AUG)					
MN	4907251.	1516346.	3.	0.	601247.
MX	36878116.	6226589.	3.	455913.	601247.
SM	11892299776.	1989687936.	2232.	263225968.	447327584.
AV	15984274.	2674312.	3.	353798.	601247.
MONTHLY SUMMARY (SEP)					
MN	4453322.	1486884.	3.	0.	601247.
MX	34071660.	5636418.	3.	455913.	601247.
SM	8334830592.	1546748800.	2160.	181656592.	432897664.
AV	11576154.	2148262.	3.	252301.	601247.
MONTHLY SUMMARY (OCT)					
MN	4018639.	1459408.	3.	0.	601247.
MX	17053206.	2593339.	3.	321645.	601247.
SM	5253408256.	1252063360.	2232.	83250632.	447327584.
AV	7061033.	1682881.	3.	111896.	601247.
MONTHLY SUMMARY (NOV)					
MN	4341045.	1479718.	3.	0.	601247.
MX	26556284.	3960663.	3.	455913.	601247.
SM	4059079424.	1144481408.	2160.	33230780.	432897664.
AV	5637611.	1589558.	3.	46154.	601247.
MONTHLY SUMMARY (DEC)					
MN	4334797.	1479320.	3.	0.	601247.
MX	7489228.	1698851.	3.	164152.	601247.
SM	3304257536.	1105816192.	2232.	2670672.	447327584.
AV	4441207.	1486312.	3.	3590.	601247.
YEARLY SUMMARY					
MN	4018639.	1459408.	3.	0.	601247.
MX	37207440.	6239734.	3.	455913.	601247.
SM	75865317376.	16615190528.	26280.	1232978560.	5266921472.
AV	8660424.	1896711.	3.	140751.	601247.

RUN 1

READING, PA 19603

REP_1 = HOURLY-REPORT

PAGE 1- 1

MMDDHH	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
	SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F
	----(2)	----(9)	----(15)	----(1)	----(2)
MONTHLY SUMMARY (JAN)					
MN	3400712.	5516383.	381.	6.0	4.000
MX	19250290.	21365960.	381.	59.0	56.000
SM	8302339584.	9876399104.	283464.	22956.0	20501.000
AV	11159059.	13274730.	381.	30.9	27.555
MONTHLY SUMMARY (FEB)					
MN	3475400.	5591071.	381.	6.0	4.000
MX	19355176.	21470848.	381.	62.0	56.000
SM	7937025024.	9358756864.	256032.	23273.0	21225.000
AV	11811049.	13926722.	381.	34.6	31.585
MONTHLY SUMMARY (MAR)					
MN	5138767.	7254438.	381.	22.0	18.000
MX	34979532.	37095204.	381.	75.0	62.000
SM	10065806336.	11639865344.	283464.	31630.0	27192.000
AV	13529310.	15644980.	381.	42.5	36.548
MONTHLY SUMMARY (APR)					
MN	5642416.	7758087.	381.	28.0	24.000
MX	41204364.	40847376.	381.	83.0	66.000
SM	11337044992.	12860327936.	274320.	37106.0	32228.000
AV	15745896.	17861566.	381.	51.5	44.761
MONTHLY SUMMARY (MAY)					
MN	7032226.	9147897.	381.	35.0	29.000
MX	59679624.	139942272.	381.	87.0	69.000
SM	17162206208.	18736265216.	283464.	45840.0	39784.000
AV	23067482.	25183152.	381.	61.6	53.473
MONTHLY SUMMARY (JUN)					
MN	10106761.	12222432.	394.	52.0	47.000
MX	96554752.	281237536.	394.	96.0	78.000
SM	29989515264.	31512801280.	283680.	52340.0	46226.000
AV	41652104.	43767780.	394.	72.7	64.203
MONTHLY SUMMARY (JUL)					
MN	11596712.	13712383.	394.	56.0	54.000
MX	105716048.	766521536.	394.	96.0	80.000
SM	40491446272.	42065510400.	293136.	56668.0	51157.000
AV	54423988.	56539664.	394.	76.2	68.759

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_1 = HOURLY-REPORT
PAGE 2- 1

EZDOR - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/19/1995 14:25:49

PLANT	PLANT	PLANT	GLOBAL	GLOBAL
SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F
---- (2)	---- (9)	---- (15)	---- (1)	---- (2)
MONTHLY SUMMARY (AUG)				
MN 10301202.	12416873.	394.	53.0	53.000
MX 99612848.	388685376.	394.	95.0	79.000
SM 37763403776.	39337463808.	293136.	55501.0	50408.000
AV 50757264.	52872936.	394.	74.6	67.753
MONTHLY SUMMARY (SEP)				
MN 8755230.	10870901.	394.	46.0	43.000
MX 87548328.	142692096.	394.	94.0	77.000
SM 25039167488.	26562451456.	283680.	49421.0	44029.000
AV 34776620.	36892292.	394.	68.6	61.151
MONTHLY SUMMARY (OCT)				
MN 6873616.	8989286.	394.	32.0	30.000
MX 44451864.	46567536.	394.	82.0	67.000
SM 13888132096.	15462192128.	293136.	42445.0	38210.000
AV 18666844.	20782516.	394.	57.0	51.358
MONTHLY SUMMARY (NOV)				
MN 5650005.	7765676.	381.	28.0	25.000
MX 71053224.	328423680.	381.	82.0	73.000
SM 11193221120.	12716503040.	274320.	33256.0	29843.000
AV 15546140.	17661810.	381.	46.2	41.449
MONTHLY SUMMARY (DEC)				
MN 4272394.	6388065.	381.	15.0	13.000
MX 20006276.	22121948.	381.	62.0	58.000
SM 8463778304.	10037837824.	283464.	26096.0	23480.000
AV 11376046.	13491718.	381.	35.1	31.559
YEARLY SUMMARY				
MN 3400712.	5516383.	381.	6.0	4.000
MX 105716048.	766521536.	394.	96.0	80.000
SM 221633085440.	240166371328.	3385296.	476532.0	424283.000
AV 25300580.	27416252.	386.	54.4	48.434

ENTECH ENGINEERING
 PDL RUN 1
 READING, PA 19603
 REP_2 = HOURLY-REPORT
 PAGE 1- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOB-2.1D 5/19/1995 14:25:49

MDDHH	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
	----(1)	----(3)	----(6)	----(20)	----(21)
MONTHLY SUMMARY (JAN)					
MN	5516383.	1681415.	3.	0.	661371.
MX	21365960.	3192000.	3.	285297.	661371.
SM	9876399104.	1741297024.	2232.	568869.	492060032.
AV	13274730.	2340453.	3.	765.	661371.
MONTHLY SUMMARY (FEB)					
MN	5591071.	1686458.	3.	0.	661371.
MX	21470848.	3204923.	3.	286141.	661371.
SM	9358756864.	1615300736.	2016.	2221723.	444441344.
AV	13926722.	2403721.	3.	3306.	661371.
MONTHLY SUMMARY (MAR)					
MN	7254438.	1803905.	3.	0.	661371.
MX	37095204.	5554443.	3.	369393.	661371.
SM	11639865344.	1919612416.	2232.	10715844.	492060032.
AV	15644980.	2580124.	3.	14403.	661371.
MONTHLY SUMMARY (APR)					
MN	7758087.	1841399.	3.	0.	661371.
MX	40847376.	6233166.	3.	717026.	661371.
SM	12860327936.	2049474048.	2160.	50370320.	476187136.
AV	17861566.	2846492.	3.	69959.	661371.
MONTHLY SUMMARY (MAY)					
MN	9147897.	1949512.	3.	0.	661371.
MX	41727792.	6261760.	3.	876359.	661371.
SM	18487078912.	2830342400.	2232.	181202896.	492060032.
AV	24848224.	3804224.	3.	243552.	661371.
MONTHLY SUMMARY (JUN)					
MN	12222432.	3009299.	5.	0.	1102286.
MX	69262328.	11312143.	5.	876359.	1102286.
SM	30739935232.	4820252672.	3600.	435093568.	793645632.
AV	42694356.	6694796.	5.	604297.	1102286.
MONTHLY SUMMARY (JUL)					
MN	13712383.	3120561.	5.	0.	1102286.
MX	69262448.	11383367.	5.	876359.	1102286.
SM	39435214848.	6185359872.	3720.	561912128.	820100480.
AV	53004320.	8313656.	5.	755258.	1102286.

ENTECH ENGINEERING
 PDL RUN 1
 READING, PA 19603
 REP_2 = HOURLY-REPORT
 PAGE 2- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/19/1995 14:25:49

	OPEN-CEN T-CHLR LOAD BTU/HR ---- (1)	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR ---- (3)	OPEN-CEN T-CHLR SIZES RUNNING BTU/HR ---- (6)	CERAMIC- TWR FAN ELEC BTU/HR ---- (20)	CERAMIC- TWR PUMP ELEC BTU/HR ---- (21)
MONTHLY SUMMARY (AUG)					
MN	12416873.	3023555.	5.	0.	1102286.
MX	69181008.	11349091.	5.	876359.	1102286.
SM	37698646016.	5866179584.	3720.	544066560.	820100480.
AV	50670224.	7884650.	5.	731272.	1102286.
MONTHLY SUMMARY (SEP)					
MN	10870901.	2912394.	5.	0.	1102286.
MX	69150632.	11268938.	5.	876359.	1102286.
SM	26385356800.	4260735744.	3600.	368434752.	793645632.
AV	36646328.	5917689.	5.	511715.	1102286.
MONTHLY SUMMARY (OCT)					
MN	8989286.	2783865.	5.	0.	1102286.
MX	46567536.	6739092.	5.	855242.	1102286.
SM	15462192128.	2822410240.	3720.	192223760.	820100480.
AV	20782516.	3793562.	5.	258365.	1102286.
MONTHLY SUMMARY (NOV)					
MN	7765676.	1841970.	3.	0.	661371.
MX	41728068.	6449202.	3.	876359.	661371.
SM	12144153600.	1997365376.	2160.	53273184.	476187136.
AV	16866880.	2774119.	3.	73991.	661371.
MONTHLY SUMMARY (DEC)					
MN	6388065.	1741509.	3.	0.	661371.
MX	22121948.	3286003.	3.	299667.	661371.
SM	10037837824.	1755442944.	2232.	1688636.	492060032.
AV	13491718.	2359466.	3.	2270.	661371.
YEARLY SUMMARY					
MN	5516383.	1681415.	3.	0.	661371.
MX	69262448.	11383367.	5.	876359.	1102286.
SM	234125754368.	37863776256.	33624.	2401772032.	7412648960.
AV	26726684.	4322349.	4.	274175.	846193.

Single plant

ENTECH ENGINEERING 19603 EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/19/1995 10:59:25 PDL RUN 1
READING, PA
REP_1 = HOURLY-REPORT PAGE 1- 1

MMDDHH	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
	SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F
----	(2)	----	(9)	----	(15) ----
----	(1)	----	(1)	----	(2)
MONTHLY SUMMARY (JAN)					
MN	6922767.	9878268.	381.	6.0	4.000
MX	22803122.	25758624.	381.	59.0	56.000
SM	10972567552.	13171461120.	283464.	22956.0	20501.000
AV	14748075.	17703576.	381.	30.9	27.555
MONTHLY SUMMARY (FEB)					
MN	7043391.	9998892.	381.	6.0	4.000
MX	25276454.	28231956.	381.	62.0	56.000
SM	10386491392.	12372588544.	256032.	23273.0	21225.000
AV	15456088.	18411590.	381.	34.6	31.585
MONTHLY SUMMARY (MAR)					
MN	8694288.	11649790.	381.	22.0	18.000
MX	47407604.	50363100.	381.	75.0	62.000
SM	13030977536.	15229872128.	283464.	31630.0	27192.000
AV	17514754.	20470258.	381.	42.5	36.548
MONTHLY SUMMARY (APR)					
MN	9203336.	12158838.	381.	28.0	24.000
MX	56718896.	53674396.	381.	83.0	66.000
SM	14892133376.	17020091392.	274320.	37106.0	32228.000
AV	20683518.	23639016.	381.	51.5	44.761
MONTHLY SUMMARY (MAY)					
MN	10611268.	13566770.	381.	35.0	29.000
MX	80059648.	64333400.	381.	87.0	69.000
SM	22757799936.	24956692480.	283464.	45840.0	39784.000
AV	30588440.	33543942.	381.	61.6	53.473
MONTHLY SUMMARY (JUN)					
MN	13846157.	16801658.	394.	52.0	47.000
MX	135291200.	206163824.	394.	96.0	78.000
SM	39308337152.	41436303360.	283680.	52340.0	46226.000
AV	54594912.	57550420.	394.	72.7	64.203
MONTHLY SUMMARY (JUL)					
MN	16413208.	19368710.	394.	56.0	54.000
MX	147680784.	785687232.	394.	96.0	80.000
SM	52685463552.	54884356096.	293136.	56668.0	51157.000
AV	70813792.	73769296.	394.	76.2	68.759

ALT #5
SINGLE CHILLED
WATER PLANT

	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
	SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F
	----(2)	----(9)	----(15)	----(1)	----(2)
MONTHLY SUMMARY (AUG)					
MN	14582248.	17537750.	394.	53.0	53.000
MX	139258688.	352743776.	394.	95.0	79.000
SM	49030868992.	51229773824.	293136.	55501.0	50408.000
AV	65901704.	68857224.	394.	74.6	67.753
MONTHLY SUMMARY (SEP)					
MN	12473321.	15428822.	394.	46.0	43.000
MX	119924320.	105291320.	394.	94.0	77.000
SM	32769320960.	34897285120.	283680.	49421.0	44029.000
AV	45512944.	48468452.	394.	68.6	61.151
MONTHLY SUMMARY (OCT)					
MN	10453994.	13409496.	394.	32.0	30.000
MX	59252696.	62208196.	394.	82.0	67.000
SM	18516703232.	20715595776.	293136.	42445.0	38210.000
AV	24888042.	27843542.	394.	57.0	51.358
MONTHLY SUMMARY (NOV)					
MN	9228663.	12184166.	381.	28.0	25.000
MX	96724720.	287669376.	381.	82.0	73.000
SM	14647620608.	16775584768.	274320.	33256.0	29843.000
AV	20343918.	23299424.	381.	46.2	41.449
MONTHLY SUMMARY (DEC)					
MN	7810157.	10765658.	381.	15.0	13.000
MX	26585578.	29541078.	381.	62.0	58.000
SM	11143200768.	13342093312.	283464.	26096.0	23480.000
AV	14977420.	17932922.	381.	35.1	31.559
YEARLY SUMMARY					
MN	6922767.	9878268.	381.	6.0	4.000
MX	147680784.	785687232.	394.	96.0	80.000
SM	290141503488.	316031664128.	3385296.	476532.0	424283.000
AV	33121176.	36076672.	386.	54.4	48.434

MMDDHH	OPEN-CEN T-CHLR LOAD BTU/HR ----(1)	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR ----(3)	OPEN-CEN T-CHLR SIZES RUNNING ----(6)	CERAMIC- TWR FAN ELEC BTU/HR ----(20)	CERAMIC- TWR PUMP ELEC BTU/HR ----(21)
MONTHLY SUMMARY (JAN)					
MN	9878268.	2690966.	3.	0.	1022120.
MX	25758624.	4095780.	3.	382448.	1022120.
SM	13171461120.	2478372864.	2232.	108702336.	760457216.
AV	17703576.	3331146.	3.	146105.	1022120.
MONTHLY SUMMARY (FEB)					
MN	9998892.	2699473.	3.	0.	1022120.
MX	28231956.	4365949.	3.	396547.	1022120.
SM	12372588544.	2281752832.	2016.	113381760.	686864576.
AV	18411590.	3395466.	3.	168723.	1022120.
MONTHLY SUMMARY (MAR)					
MN	11649790.	2819251.	3.	0.	1022120.
MX	50363100.	7392417.	3.	632600.	1022120.
SM	15229872128.	2675034880.	2232.	162455264.	760457216.
AV	20470258.	3595477.	3.	218354.	1022120.
MONTHLY SUMMARY (APR)					
MN	12158838.	2857440.	3.	0.	1022120.
MX	53674396.	7938756.	3.	998647.	1022120.
SM	17020091392.	2839074560.	2160.	202715792.	735926336.
AV	23639016.	3943159.	3.	281550.	1022120.
MONTHLY SUMMARY (MAY)					
MN	13566770.	2966142.	3.	0.	1022120.
MX	64333400.	9898878.	3.	1114521.	1022120.
SM	24956692480.	3879078400.	2232.	348553184.	760457216.
AV	33543942.	5213815.	3.	468485.	1022120.
MONTHLY SUMMARY (JUN)					
MN	16801658.	4498627.	5.	438884.	1703533.
MX	105579776.	17690278.	5.	1114521.	1703533.
SM	41178693632.	6666675712.	3600.	610267776.	1226543360.
AV	57192632.	9259272.	5.	847594.	1703533.
MONTHLY SUMMARY (JUL)					
MN	19368710.	4683051.	5.	459963.	1703533.
MX	104553120.	17733452.	5.	1114521.	1703533.
SM	53149376512.	8580954112.	3720.	742694976.	1267428096.
AV	71437336.	11533540.	5.	998246.	1703532.

	OPEN-CEN T-CHLR LOAD BTU/HR ----(1)	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR ----(3)	OPEN-CEN T-CHLR SIZES RUNNING BTU/HR ----(6)	CERAMIC- TWR FAN ELEC BTU/HR ----(20)	CERAMIC- TWR PUMP ELEC BTU/HR ----(21)
MONTHLY SUMMARY (AUG)					
MN	17537750.	4550599.	5.	445071.	1703533.
MX	104646168.	17714352.	5.	1114521.	1703533.
SM	50623107072.	8102352896.	3720.	725204160.	1267428096.
AV	68041808.	10890259.	5.	974737.	1703532.
MONTHLY SUMMARY (SEP)					
MN	15428822.	4403656.	5.	427027.	1703533.
MX	105291320.	17654272.	5.	1114521.	1703533.
SM	34897285120.	5843448320.	3600.	549373696.	1226543360.
AV	48468452.	8115901.	5.	763019.	1703533.
MONTHLY SUMMARY (OCT)					
MN	13409496.	4268602.	5.	408807.	1703533.
MX	62208196.	9059091.	5.	1114521.	1703533.
SM	20715595776.	4050152192.	3720.	397904640.	1267428096.
AV	27843542.	5443753.	5.	534818.	1703532.
MONTHLY SUMMARY (NOV)					
MN	12184166.	2859355.	3.	0.	1022120.
MX	64484824.	10157030.	3.	1114521.	1022120.
SM	16415405056.	2844613376.	2160.	189553680.	735926336.
AV	22799174.	3950852.	3.	263269.	1022120.
MONTHLY SUMMARY (DEC)					
MN	10765658.	2754330.	3.	0.	1022120.
MX	29541078.	4514518.	3.	409149.	1022120.
SM	13342093312.	2492922880.	2232.	119029160.	760457216.
AV	17932922.	3350703.	3.	159985.	1022120.
YEARLY SUMMARY					
MN	9878268.	2690966.	3.	0.	1022120.
MX	105579776.	17733452.	5.	1114521.	1703533.
SM	31307222208.	52734435328.	33624.	4269836544.	11455917056.
AV	35738840.	6019913.	4.	487424.	1307753.

MMDDHH	STM-BOIL ER LOAD BTU/HR ----(1)	STM-BOIL ER ELECTRIC USE BTU/HR ----(3)	STM-BOIL ER FUEL USE BTU/HR ----(4)	CTANK-ST ORAGE ENERGY RELEASED BTU/HR ----(1)	CTANK-ST ORAGE ENERGY STORED BTU/HR ----(4)	CTANK-ST ORAGE SIZES RUNNING BTU/HR ----(6)	CTANK-ST ORAGE CAPACITY RUNNING BTU/HR ----(7)	CTANK-ST ORAGE ENERGY AVAILABL BTU/HR ----(8)
MONTHLY SUMMARY (JAN)								
MN	7781551.	684776.	13224786.	0.	0.	0.	0.	0.
MX	109598496.	2461150.	142951632.	0.	0.	0.	0.	0.
SM	45429723136.	1781912320.	64664276992.	0.	0.	0.	0.	0.
AV	61061456.	2395044.	86914352.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (FEB)								
MN	2999430.	263950.	5097547.	0.	0.	0.	0.	0.
MX	111870432.	2461150.	145431552.	0.	0.	0.	0.	0.
SM	36203253760.	1573002240.	52422246400.	0.	0.	0.	0.	0.
AV	53873888.	2340777.	78009296.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (MAR)								
MN	1147940.	101019.	1950930.	0.	0.	0.	0.	0.
MX	78964384.	2461150.	108583320.	0.	0.	0.	0.	0.
SM	28332677120.	1551163264.	43002388480.	0.	0.	0.	0.	0.
AV	38081556.	2084897.	57798908.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (APR)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	66767344.	2461150.	94417736.	0.	0.	0.	0.	0.
SM	16212275200.	1114417920.	25863563264.	0.	0.	0.	0.	0.
AV	22517048.	1547803.	35921616.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	53165060.	2461150.	78296448.	0.	0.	0.	0.	0.
SM	6802996224.	527435072.	11180479488.	0.	0.	0.	0.	0.
AV	9143812.	708918.	15027526.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	17885370.	1573913.	30396278.	0.	0.	0.	0.	0.
SM	813765376.	71611336.	1382998528.	0.	0.	0.	0.	0.
AV	1130230.	99460.	1920831.	0.	0.	0.	0.	0.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	11719003.	1031272.	19916506.	0.	0.	0.	0.	0.
SM	150781872.	13268803.	256254544.	0.	0.	0.	0.	0.
AV	202664.	17834.	344428.	0.	0.	0.	0.	0.

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/31/1995 9:32:19

WEATHER FILE- BALTIMORE, MD

Aug
Engine
Driven
Chiller
C.O.P. 1.7
4Kw in Access.

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	10914.29	315598.86
SPACE COOL	4114.67	100718.74
HVAC AUX	53283.52	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	154501.56	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	127947.05	0.00
TOTAL	350761.09	416317.60

TOTAL SITE ENERGY	767075.48 MBTU	322.2 KBTU/SQFT-YR GROSS-AREA	322.2 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	1469644.80 MBTU	617.3 KBTU/SQFT-YR GROSS-AREA	617.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 96.1
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 78.2

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	ENG-CHLR	ENG-CHLR	ENG-CHLR	ENG-CHLR	CERAMIC-TWR	CERAMIC-TWR
	LOAD	ELECTRIC	STEAM	COP	FAN	PUMP
	BTU/HR	USE	USE		ELEC	ELEC
		BTU/HR	BTU/HR	FRAC.OR	BTU/HR	BTU/HR
				MULT.		
	----(1)	----(3)	----(4)	----(16)	----(20)	----(21)
MONTHLY SUMMARY (JAN)						
MN	9878268.	14280.	4621685.	1.660	114442.	340707.
MX	21037524.	14280.	12053630.	2.137	114714.	340707.
SM	13018886144.	10624321.	7420282880.	1332.821	85347288.	253485728.
AV	17498502.	14280.	9973498.	1.791	114714.	340707.
MONTHLY SUMMARY (FEB)						
MN	9998892.	14280.	4689382.	1.670	114714.	340707.
MX	21007870.	14280.	12120413.	2.132	114714.	340707.
SM	12058471424.	9596161.	6926555136.	1191.053	77088128.	228954848.
AV	17944154.	14280.	10307374.	1.772	114714.	340707.
MONTHLY SUMMARY (MAR)						
MN	11649790.	14280.	5607204.	1.584	114714.	340707.
MX	20814512.	14280.	12380138.	2.078	114714.	340707.
SM	13982333952.	10624321.	8133468160.	1291.253	85347560.	253485728.
AV	18793460.	14280.	10932081.	1.736	114714.	340707.
MONTHLY SUMMARY (APR)						
MN	12158838.	14280.	5896852.	1.576	114714.	340707.
MX	20814512.	14280.	12703822.	2.062	114714.	340707.
SM	13932895232.	10281601.	8194093568.	1230.920	82594416.	245308768.
AV	19351244.	14280.	11380686.	1.710	114714.	340707.
MONTHLY SUMMARY (MAY)						
MN	13566770.	14280.	6908758.	1.556	114714.	340707.
MX	20814512.	14280.	12814998.	1.964	114714.	340707.
SM	14806548480.	10624321.	8927243264.	1237.167	85347560.	253485728.
AV	19901274.	14280.	11998983.	1.663	114714.	340707.
MONTHLY SUMMARY (JUN)						
MN	16801658.	14280.	9475003.	1.456	114714.	340707.
MX	20814512.	14280.	13313359.	1.773	114714.	340707.
SM	14399915008.	10281601.	9060468736.	1145.463	82594416.	245308768.
AV	19999882.	14280.	12583984.	1.591	114714.	340707.
MONTHLY SUMMARY (JUL)						
MN	19152342.	14280.	11949277.	1.430	114714.	340707.
MX	20587382.	14280.	13460356.	1.692	114714.	340707.
SM	14772523008.	10624321.	9532713984.	1153.696	85347560.	253485728.
AV	19855542.	14280.	12812788.	1.551	114714.	340707.

ENTECH ENGINEERING
 PDL RUN 1
 READING, PA 19603
 REP 1 - HOURLY-REPORT
 PAGE 2- 1

BZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/31/1995 9:32:19

	ENG-CHLR	ENG-CHLR	ENG-CHLR	ENG-CHLR	CERAMIC- TWR FAN ELEC	CERAMIC- TWR PUMP ELEC
	LOAD	ELECTRIC USE	STEAM USE	COP		
	BTU/HR	BTU/HR	BTU/HR	FRAC.OR MULT.	BTU/HR	BTU/HR
	----(1)	----(3)	----(4)	----(16)	----(20)	----(21)
MONTHLY SUMMARY (AUG)						
MN	18402000.	14280.	10677252.	1.443	114714.	340707.
MX	20587382.	14280.	13383067.	1.723	114714.	340707.
SM	14803582976.	10624321.	9492826112.	1160.836	85347560.	253485728.
AV	19897288.	14280.	12759175.	1.560	114714.	340707.
MONTHLY SUMMARY (SEP)						
MN	15428822.	14280.	8391948.	1.469	114714.	340707.
MX	20814512.	14280.	13244212.	1.839	114714.	340707.
SM	14381743104.	10281601.	8900113408.	1165.738	82594416.	245308768.
AV	19974644.	14280.	12361269.	1.619	114714.	340707.
MONTHLY SUMMARY (OCT)						
MN	13409496.	14280.	6812107.	1.562	114714.	340707.
MX	20814512.	14280.	12738061.	1.968	114714.	340707.
SM	14567443456.	10624321.	8685906944.	1253.252	85347560.	253485728.
AV	19579898.	14280.	11674606.	1.684	114714.	340707.
MONTHLY SUMMARY (NOV)						
MN	12184164.	14280.	5914130.	1.517	114714.	340707.
MX	20814512.	14280.	13001321.	2.060	114714.	340707.
SM	13451953152.	10281601.	7868172288.	1245.811	82594416.	245308768.
AV	18683268.	14280.	10928017.	1.730	114714.	340707.
MONTHLY SUMMARY (DEC)						
MN	10765658.	14280.	5104090.	1.617	114714.	340707.
MX	20314526.	14280.	12198897.	2.109	114714.	340707.
SM	13225072640.	10624321.	7577196544.	1323.715	85347560.	253485728.
AV	17775636.	14280.	10184404.	1.779	114714.	340707.
YEARLY SUMMARY						
MN	9878268.	14280.	4621685.	1.430	114442.	340707.
MX	21037524.	14280.	13460356.	2.137	114714.	340707.
SM	167401357312.	125092808.	100719042560.	14731.724	1004898560.	2984590080.
AV	19109744.	14280.	11497608.	1.682	114714.	340707.

ENTTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/31/1995 9:32:19
 EDL RUN 1
 READING, PA 19603
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT= 3413.00	NTRL-GAS UNIT= 1030000.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	8979052.	69985.
PEAK DEMAND (UNIT/HR)	15390.	149.
TOTAL COST (\$)	403528.75	265943.16
FEB		
ENERGY CONSUMPTION (UNIT/MO)	8099424.	57620.
PEAK DEMAND (UNIT/HR)	15390.	153.
TOTAL COST (\$)	363971.50	218956.73
MAR		
ENERGY CONSUMPTION (UNIT/MO)	8911435.	49646.
PEAK DEMAND (UNIT/HR)	15390.	112.
TOTAL COST (\$)	404545.13	188656.58
APR		
ENERGY CONSUMPTION (UNIT/MO)	8510660.	33066.
PEAK DEMAND (UNIT/HR)	15390.	101.
TOTAL COST (\$)	381465.75	125649.66
MAY		
ENERGY CONSUMPTION (UNIT/MO)	8611452.	19522.
PEAK DEMAND (UNIT/HR)	15390.	84.
TOTAL COST (\$)	389093.19	74183.78
JUN		
ENERGY CONSUMPTION (UNIT/MO)	8205102.	10139.
PEAK DEMAND (UNIT/HR)	14861.	39.
TOTAL COST (\$)	374230.06	38529.27
JUL		
ENERGY CONSUMPTION (UNIT/MO)	8460811.	9504.
PEAK DEMAND (UNIT/HR)	14669.	31.
TOTAL COST (\$)	374212.50	36114.64
AUG		
ENERGY CONSUMPTION (UNIT/MO)	8468852.	9980.
PEAK DEMAND (UNIT/HR)	14736.	40.
TOTAL COST (\$)	387492.50	37923.60
SEP		
ENERGY CONSUMPTION (UNIT/MO)	8244770.	12535.
PEAK DEMAND (UNIT/HR)	15162.	61.
TOTAL COST (\$)	367069.63	47633.27
OCT		
ENERGY CONSUMPTION (UNIT/MO)	8700037.	25953.
PEAK DEMAND (UNIT/HR)	15162.	94.
TOTAL COST (\$)	387988.06	98622.37
NOV		
ENERGY CONSUMPTION (UNIT/MO)	8599211.	42986.
PEAK DEMAND (UNIT/HR)	15390.	102.
TOTAL COST (\$)	385659.63	163347.61
DEC		
ENERGY CONSUMPTION (UNIT/MO)	8980737.	63255.
PEAK DEMAND (UNIT/HR)	15390.	128.
TOTAL COST (\$)	401450.66	240367.91

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	102771544.	404192.
PEAK DEMAND (UNIT/HR)	15390.	153.
TOTAL COST (\$)	4620707.00	1535928.50

ALT 6

Two stage
Steam absorption
chiller
C.O.P. ≈ 1.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 5/31/1995 10:15: 2
PDL RUN 1
READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- BALTIMORE, MD

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	9505.31	307651.22
SPACE COOL	16785.97	252311.24
HVAC AUX	53283.48	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	154501.43	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	127946.94	0.00
	-----	-----
TOTAL	362023.12	559962.46

TOTAL SITE ENERGY	921982.99 MBTU	387.3 KBTU/SQFT-YR GROSS-AREA	387.3 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	1647112.62 MBTU	691.8 KBTU/SQFT-YR GROSS-AREA	691.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 96.1
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 80.2

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_1 = HOURLY-REPORT
PAGE 1- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/31/1995 10:15: 2

MMDDHH	ABSOR2-C HLR LOAD BTU/HR	ABSOR2-C HLR ELECTRIC USE BTU/HR	ABSOR2-C HLR STEAM USE BTU/HR	ABSOR2-C HLR HEAT IN RATIO BTU/BTU	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
----	(1)	---- (3)	---- (4)	---- (16)	---- (20)	---- (21)
MONTHLY SUMMARY (JAN)						
MN	9878268.	142800.	9755078.	0.478	117437.	408848.
MX	20767032.	142800.	20280130.	0.994	117437.	408848.
SM	12939603968.	106243200.	13049927680.	639.702	87373464.	304182880.
AV	17391940.	142800.	17540226.	0.860	117437.	408848.
MONTHLY SUMMARY (FEB)						
MN	9998892.	142800.	9925340.	0.487	117437.	408848.
MX	20636654.	142800.	20441584.	1.002	117437.	408848.
SM	11966147584.	95961600.	12070671360.	591.700	78917976.	274745824.
AV	17806768.	142800.	17962308.	0.881	117437.	408848.
MONTHLY SUMMARY (MAR)						
MN	11649790.	142800.	11753479.	0.576	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	13827356672.	106243200.	13959863296.	684.307	87373464.	304182880.
AV	18585156.	142800.	18763258.	0.920	117437.	408848.
MONTHLY SUMMARY (APR)						
MN	12158838.	142800.	12267058.	0.601	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	13598764032.	102816000.	13833171968.	678.097	84554968.	294370528.
AV	18887172.	142800.	19212738.	0.942	117437.	408848.
MONTHLY SUMMARY (MAY)						
MN	13077848.	142800.	13687521.	0.671	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	13506153472.	106243200.	14220453888.	697.081	87373464.	304182880.
AV	18153432.	142800.	19113514.	0.937	117437.	408848.
MONTHLY SUMMARY (JUN)						
MN	8129122.	142800.	10866674.	0.533	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	11180835840.	102816000.	12652231680.	620.207	84554968.	294370528.
AV	15528939.	142800.	17572544.	0.861	117437.	408848.
MONTHLY SUMMARY (JUL)						
MN	3079621.	142800.	4488244.	0.220	117437.	408848.
MX	20284712.	142800.	20666760.	1.013	117437.	408848.
SM	10361350144.	106243200.	12175726592.	596.849	87373464.	304182880.
AV	13926546.	142800.	16365224.	0.802	117437.	408848.

ENTECH ENGINEERING
 PDL RUN 1
 READING, PA 19603
 REP_1 = HOURLY-REPORT
 PAGE 2- 1

BZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/31/1995 10:15: 2

	ABSOR2-C HLR LOAD BTU/HR ----(1)	ABSOR2-C HLR ELECTRIC BTU/HR ----(3)	ABSOR2-C HLR STEAM BTU/HR ----(4)	ABSOR2-C HLR HEAT IN RATIO BTU/BTU ----(16)	CERAMIC- TWR FAN ELEC BTU/HR ----(20)	CERAMIC- TWR PUMP ELEC BTU/HR ----(21)
MONTHLY SUMMARY (AUG)						
MN	5897510.	142800.	8200202.	0.402	117437.	408848.
MX	19871842.	142800.	20457986.	1.003	117437.	408848.
SM	10523711488.	106243200.	12375302144.	606.632	87373464.	304182880.
AV	14144774.	142800.	16633471.	0.815	117437.	408848.
MONTHLY SUMMARY (SEP)						
MN	8530775.	142800.	11113586.	0.545	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	11970027520.	102816000.	13105483776.	642.426	84554968.	294370528.
AV	16625038.	142800.	18202060.	0.892	117437.	408848.
MONTHLY SUMMARY (OCT)						
MN	13409496.	142800.	13528848.	0.663	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	13668769792.	106243200.	14201334784.	696.144	87373464.	304182880.
AV	18372002.	142800.	19087816.	0.936	117437.	408848.
MONTHLY SUMMARY (NOV)						
MN	11996625.	142800.	12292609.	0.603	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	12976350208.	102816000.	13249860608.	649.503	84554968.	294370528.
AV	18022708.	142800.	18402584.	0.902	117437.	408848.
MONTHLY SUMMARY (DEC)						
MN	10765657.	142800.	10861476.	0.532	117437.	408848.
MX	20124510.	142800.	20303630.	0.995	117437.	408848.
SM	13151798272.	106243200.	13275147264.	650.742	87373464.	304182880.
AV	17677148.	142800.	17842940.	0.875	117437.	408848.
YEARLY SUMMARY						
MN	3079621.	142800.	4488244.	0.220	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	149670871040.	1250928000.	158169186304.	7753.391	1028752000.	3581508096.
AV	17085716.	142800.	18055844.	0.885	117437.	408848.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/31/1995 10:15: 2
 EDL RUN 1
 READING, PA 19603
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT= 3413.00	NTRL-GAS UNIT= 1030000.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	9133223.	80074.
PEAK DEMAND (UNIT/HR)	15580.	164.
TOTAL COST (\$)	410356.31	304282.97
FEB		
ENERGY CONSUMPTION (UNIT/MO)	8247129.	67043.
PEAK DEMAND (UNIT/HR)	15580.	166.
TOTAL COST (\$)	370586.50	254763.45
MAR		
ENERGY CONSUMPTION (UNIT/MO)	9118826.	61187.
PEAK DEMAND (UNIT/HR)	15580.	126.
TOTAL COST (\$)	413965.25	232509.38
APR		
ENERGY CONSUMPTION (UNIT/MO)	8786221.	45723.
PEAK DEMAND (UNIT/HR)	15580.	115.
TOTAL COST (\$)	393941.59	173748.48
MAY		
ENERGY CONSUMPTION (UNIT/MO)	8979015.	33562.
PEAK DEMAND (UNIT/HR)	15580.	99.
TOTAL COST (\$)	405528.56	127535.42
JUN		
ENERGY CONSUMPTION (UNIT/MO)	8573026.	22213.
PEAK DEMAND (UNIT/HR)	15352.	58.
TOTAL COST (\$)	390411.13	84407.86
JUL		
ENERGY CONSUMPTION (UNIT/MO)	8818216.	20339.
PEAK DEMAND (UNIT/HR)	15252.	52.
TOTAL COST (\$)	389445.75	77287.40
AUG		
ENERGY CONSUMPTION (UNIT/MO)	8831212.	21180.
PEAK DEMAND (UNIT/HR)	15307.	59.
TOTAL COST (\$)	403453.81	80482.11
SEP		
ENERGY CONSUMPTION (UNIT/MO)	8615569.	25358.
PEAK DEMAND (UNIT/HR)	15352.	75.
TOTAL COST (\$)	383157.13	96361.56
OCT		
ENERGY CONSUMPTION (UNIT/MO)	9032830.	39582.
PEAK DEMAND (UNIT/HR)	15580.	108.
TOTAL COST (\$)	402805.09	150412.09
NOV		
ENERGY CONSUMPTION (UNIT/MO)	8803291.	53945.
PEAK DEMAND (UNIT/HR)	15580.	116.
TOTAL COST (\$)	394791.16	204990.75
DEC		
ENERGY CONSUMPTION (UNIT/MO)	9132441.	73447.
PEAK DEMAND (UNIT/HR)	15580.	142.
TOTAL COST (\$)	408165.41	279097.03

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	106070992.	543652.
PEAK DEMAND (UNIT/HR)	15580.	166.
TOTAL COST (\$)	4766607.50	2065878.63

Alt6
New Electric
@ 1.55 kW/100

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/31/1995 10:29:25
PDL RUN 1
READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- BALTIMORE, MD

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	10913.99	315598.86
SPACE COOL	32914.06	0.00
HVAC AUX	53282.06	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	154497.34	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	127943.55	0.00
	-----	-----
TOTAL	379550.99	315598.86

TOTAL SITE ENERGY	695157.13 MBTU	292.0 KBTU/SQFT-YR GROSS-AREA	292.0 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	1455414.58 MBTU	611.3 KBTU/SQFT-YR GROSS-AREA	611.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 96.1
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 77.5

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/31/1995 10:29:25
 PDL RUN 1
 READING, PA 19603
 REP 1 = HOURLY-REPORT
 PAGE 1- 1

MDDHH	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR ADJUSTED EIR BTU/HR	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
	----(1)	----(3)	----(16)	----(20)	----(21)
MONTHLY SUMMARY (JAN)					
MN	9878268.	1518342.	0.074	112266.	340707.
MX	20845828.	3514931.	0.172	114714.	340707.
SM	13039354880.	2192472832.	107.474	85332680.	253485728.
AV	17526014.	2946872.	0.144	114694.	340707.
MONTHLY SUMMARY (FEB)					
MN	9998892.	1532492.	0.075	112608.	340707.
MX	20846472.	3510549.	0.172	114714.	340707.
SM	12077870080.	2039814400.	99.991	77079048.	228954848.
AV	17973020.	3035438.	0.149	114701.	340707.
MONTHLY SUMMARY (MAR)					
MN	11649790.	1778207.	0.087	114714.	340707.
MX	20736154.	3543578.	0.174	114714.	340707.
SM	14013953024.	2381764608.	116.753	85347560.	253485728.
AV	18835958.	3201297.	0.157	114714.	340707.
MONTHLY SUMMARY (APR)					
MN	12158838.	1860910.	0.091	114714.	340707.
MX	20736154.	3547454.	0.174	114714.	340707.
SM	13951238144.	2384152320.	116.870	82594416.	245308768.
AV	19376720.	3311323.	0.162	114714.	340707.
MONTHLY SUMMARY (MAY)					
MN	13566770.	2111536.	0.104	114714.	340707.
MX	20736154.	3552018.	0.174	114714.	340707.
SM	14777086976.	2562842112.	125.630	85347560.	253485728.
AV	19861676.	3444680.	0.169	114714.	340707.
MONTHLY SUMMARY (JUN)					
MN	16801658.	2837226.	0.139	114714.	340707.
MX	20736154.	3557559.	0.174	114714.	340707.
SM	14211720192.	2541078784.	124.563	82594416.	245308768.
AV	19738500.	3529276.	0.173	114714.	340707.
MONTHLY SUMMARY (JUL)					
MN	17809932.	3490677.	0.171	114714.	340707.
MX	20427042.	3560064.	0.175	114714.	340707.
SM	14434712576.	2634489088.	129.142	85347560.	253485728.
AV	19401496.	3540980.	0.174	114714.	340707.

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 5/31/1995 10:29:25
 PDL RUN 1
 READING, PA 19603
 REP_1 = HOURLY-REPORT
 PAGE 2- 1

	OPEN-CEN T-CHLR LOAD BTU/HR ----(1)	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR ----(3)	OPEN-CEN T-CHLR ADJUSTED EIR BTU/HR ----(16)	CERAMIC- TWR FAN ELEC BTU/HR ----(20)	CERAMIC- TWR PUMP ELEC BTU/HR ----(21)
MONTHLY SUMMARY (AUG)					
MN	18022048.	3117811.	0.153	114714.	340707.
MX	20380426.	3557177.	0.174	114714.	340707.
SM	14520425472.	2634964736.	129.165	85347560.	253485728.
AV	19516700.	3541619.	0.174	114714.	340707.
MONTHLY SUMMARY (SEP)					
MN	15428824.	2485504.	0.122	114714.	340707.
MX	20736154.	3557092.	0.174	114714.	340707.
SM	14230432768.	2516543744.	123.360	82594416.	245308768.
AV	19764490.	3495200.	0.171	114714.	340707.
MONTHLY SUMMARY (OCT)					
MN	13409496.	2088297.	0.102	114714.	340707.
MX	20736154.	3551963.	0.174	114714.	340707.
SM	14559712256.	2507058944.	122.895	85347560.	253485728.
AV	19569506.	3369703.	0.165	114714.	340707.
MONTHLY SUMMARY (NOV)					
MN	12184163.	1865919.	0.091	114714.	340707.
MX	20736154.	3554755.	0.174	114714.	340707.
SM	13457640448.	2296074240.	112.553	82594416.	245308768.
AV	18691168.	3188992.	0.156	114714.	340707.
MONTHLY SUMMARY (DEC)					
MN	10765658.	1638266.	0.080	114699.	340707.
MX	20353066.	3534298.	0.173	114714.	340707.
SM	13239073792.	2233955072.	109.508	85347544.	253485728.
AV	17794454.	3002628.	0.147	114714.	340707.
YEARLY SUMMARY					
MN	9878268.	1518342.	0.074	112266.	340707.
MX	20846472.	3560064.	0.175	114714.	340707.
SM	166513213440.	28925208576.	1417.902	1004874816.	2984590080.
AV	19008358.	3301965.	0.162	114712.	340707.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/31/1995 10:29:25
 EDL RUN 1
 READING, PA 19603
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT= 3413.00	NTRL-GAS UNIT= 1030000.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	9618296.	62781.
PEAK DEMAND (UNIT/HR)	16411.	139.
TOTAL COST (\$)	432245.38	238567.28
FEB		
ENERGY CONSUMPTION (UNIT/MO)	8694246.	50895.
PEAK DEMAND (UNIT/HR)	16411.	141.
TOTAL COST (\$)	390661.31	193402.52
MAR		
ENERGY CONSUMPTION (UNIT/MO)	9606162.	41750.
PEAK DEMAND (UNIT/HR)	16410.	105.
TOTAL COST (\$)	435896.22	158649.66
APR		
ENERGY CONSUMPTION (UNIT/MO)	9206194.	25110.
PEAK DEMAND (UNIT/HR)	16410.	92.
TOTAL COST (\$)	412391.91	95419.04
MAY		
ENERGY CONSUMPTION (UNIT/MO)	9359263.	10855.
PEAK DEMAND (UNIT/HR)	16409.	76.
TOTAL COST (\$)	422434.28	41248.38
JUN		
ENERGY CONSUMPTION (UNIT/MO)	8946621.	1343.
PEAK DEMAND (UNIT/HR)	15876.	30.
TOTAL COST (\$)	406884.63	5102.32
JUL		
ENERGY CONSUMPTION (UNIT/MO)	9229598.	249.
PEAK DEMAND (UNIT/HR)	15704.	19.
TOTAL COST (\$)	407126.25	945.41
AUG		
ENERGY CONSUMPTION (UNIT/MO)	9237787.	764.
PEAK DEMAND (UNIT/HR)	15757.	29.
TOTAL COST (\$)	421434.38	2901.53
SEP		
ENERGY CONSUMPTION (UNIT/MO)	8979105.	3894.
PEAK DEMAND (UNIT/HR)	16183.	49.
TOTAL COST (\$)	398792.09	14797.86
OCT		
ENERGY CONSUMPTION (UNIT/MO)	9431477.	17520.
PEAK DEMAND (UNIT/HR)	16183.	83.
TOTAL COST (\$)	419922.50	66577.29
NOV		
ENERGY CONSUMPTION (UNIT/MO)	9268920.	35347.
PEAK DEMAND (UNIT/HR)	16410.	93.
TOTAL COST (\$)	415541.31	134319.38
DEC		
ENERGY CONSUMPTION (UNIT/MO)	9632137.	55898.
PEAK DEMAND (UNIT/HR)	16411.	120.
TOTAL COST (\$)	430550.88	212413.25

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	111209800.	306406.
PEAK DEMAND (UNIT/HR)	16411.	141.
TOTAL COST (\$)	4993881.00	1164344.00

Alt6
Gas-fired
Chiller
C.O.P 1.2

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/31/1995 9:53:56
PDL RUN 1
READING, PA 19603
REPORT- BBPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- BALTIMORE, MD

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	10913.79	315598.86
SPACE COOL	5879.23	149529.38
HVAC AUX	53281.10	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	154494.55	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	127941.23	0.00

TOTAL	352509.89	465128.26

TOTAL SITE ENERGY	817652.30 MBTU	343.4 KBTU/SQFT-YR GROSS-AREA	343.4 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	1523758.79 MBTU	640.0 KBTU/SQFT-YR GROSS-AREA	640.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 96.1
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 76.2

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_1 = HOURLY-REPORT
PAGE 1- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOB-2.1D 5/31/1995 9:53:56

MMDH	ABSORG-C HLR LOAD BTU/HR ---- (1)	ABSORG-C HLR ELECTRIC USE BTU/HR ---- (3)	ABSORG-C HLR FUELUSE COOLING BTU/HR ---- (4)	ABSORG-C HLR HEAT INP RATIO FRAC. OR MULT. ---- (17)	CERAMIC- TWR FAN ELEC BTU/HR ---- (20)	CERAMIC- TWR PUMP ELEC BTU/HR ---- (21)
MONTHLY SUMMARY (JAN)						
MN	9878268.	144840.	8362707.	0.410	117437.	408848.
MX	20400000.	144840.	17572676.	0.861	117437.	408848.
SM	13082949632.	107760960.	11133954048.	545.782	87373464.	304182880.
AV	17584610.	144840.	14964992.	0.734	117437.	408848.
MONTHLY SUMMARY (FEB)						
MN	9998893.	144840.	8476593.	0.416	117437.	408848.
MX	20400000.	144840.	17474302.	0.857	117437.	408848.
SM	12119202816.	97332480.	10308560896.	505.322	78917976.	274745824.
AV	18034528.	144840.	15340120.	0.752	117437.	408848.
MONTHLY SUMMARY (MAR)						
MN	11649789.	144840.	9975716.	0.489	117437.	408848.
MX	20400000.	144840.	18929982.	0.928	117437.	408848.
SM	14077641728.	107760960.	11939423232.	585.266	87373464.	304182880.
AV	18921562.	144840.	16047612.	0.787	117437.	408848.
MONTHLY SUMMARY (APR)						
MN	12158838.	144840.	10369869.	0.508	117437.	408848.
MX	20400000.	144840.	19217726.	0.942	117437.	408848.
SM	14008952832.	104284800.	11879950336.	582.351	84554968.	294370528.
AV	19456878.	144840.	16499931.	0.809	117437.	408848.
MONTHLY SUMMARY (MAY)						
MN	13566770.	144840.	11487168.	0.563	117437.	408848.
MX	20400000.	144840.	19820992.	0.972	117437.	408848.
SM	14908018688.	107760960.	12911524864.	632.918	87373464.	304182880.
AV	20037660.	144840.	17354200.	0.851	117437.	408848.
MONTHLY SUMMARY (JUN)						
MN	16801658.	144840.	14205070.	0.696	117437.	408848.
MX	20400000.	144840.	21193336.	1.039	117437.	408848.
SM	14660571136.	104284800.	13547449344.	664.091	84554968.	294370528.
AV	20361904.	144840.	18815902.	0.922	117437.	408848.
MONTHLY SUMMARY (JUL)						
MN	20400000.	144840.	17053278.	0.836	117437.	408848.
MX	20400000.	144840.	21595034.	1.059	117437.	408848.
SM	15177600000.	107760960.	14642057216.	717.748	87373464.	304182880.
AV	20400000.	144840.	19680184.	0.965	117437.	408848.

ENTECH ENGINEERING
 PDL RUN 1
 READING, PA 19603
 REP_1
 = HOURLY-REPORT
 PAGE 2- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/31/1995 9:53:56

ABSORG-C HLR LOAD BTU/HR ---- (1)	ABSORG-C HLR ELECTRIC USE BTU/HR ---- (3)	ABSORG-C HLR FUELUSE COOLING BTU/HR ---- (4)	ABSORG-C HLR HEAT INP RATIO FRAC.OR MULT. ---- (17)	CERAMIC- TWR FAN ELEC BTU/HR ---- (20)	CERAMIC- TWR PUMP ELEC BTU/HR ---- (21)
MONTHLY SUMMARY (AUG)					
MN 17537750.	144840.	14852805.	0.728	117437.	408848.
MX 20400000.	144840.	21389460.	1.049	117437.	408848.
SM 15170971648.	107760960.	14510192640.	711.284	87373464.	304182880.
AV 20391090.	144840.	19502948.	0.956	117437.	408848.
MONTHLY SUMMARY (SEP)					
MN 15428822.	144840.	13026006.	0.639	117437.	408848.
MX 20400000.	144840.	21005760.	1.030	117437.	408848.
SM 14560152576.	104284800.	13150999552.	644.657	84554968.	294370528.
AV 20222434.	144840.	18265278.	0.895	117437.	408848.
MONTHLY SUMMARY (OCT)					
MN 13409496.	144840.	11360382.	0.557	117437.	408848.
MX 20400000.	144840.	19477770.	0.955	117437.	408848.
SM 14653491200.	107760960.	12561997824.	615.784	87373464.	304182880.
AV 19695552.	144840.	16884406.	0.828	117437.	408848.
MONTHLY SUMMARY (NOV)					
MN 12184164.	144840.	10389614.	0.509	117437.	408848.
MX 20400000.	144840.	20344458.	0.997	117437.	408848.
SM 13561594880.	104284800.	11639656448.	570.571	84554968.	294370528.
AV 18835548.	144840.	16166190.	0.792	117437.	408848.
MONTHLY SUMMARY (DEC)					
MN 10765658.	144840.	9164095.	0.449	117437.	408848.
MX 20400000.	144840.	18079344.	0.886	117437.	408848.
SM 13269807104.	107760960.	11304118272.	554.123	87373464.	304182880.
AV 17835762.	144840.	15193707.	0.745	117437.	408848.
YEARLY SUMMARY					
MN 9878268.	144840.	8362707.	0.410	117437.	408848.
MX 20400000.	144840.	21595034.	1.059	117437.	408848.
SM 169250947072.	1268798464.	149529886720.	7329.896	1028752000.	3581508096.
AV 19320884.	144840.	17069622.	0.837	117437.	408848.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/31/1995 9:53:56
 EDL RUN 1
 READING, PA 19603
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT= 3413.00	NTRL-GAS UNIT= 1030000.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	9022956.	73591.
PEAK DEMAND (UNIT/HR)	15449.	154.
TOTAL COST (\$)	405473.56	279643.91
FEB		
ENERGY CONSUMPTION (UNIT/MO)	8139081.	60904.
PEAK DEMAND (UNIT/HR)	15449.	158.
TOTAL COST (\$)	365728.56	231433.84
MAR		
ENERGY CONSUMPTION (UNIT/MO)	8955340.	53342.
PEAK DEMAND (UNIT/HR)	15449.	117.
TOTAL COST (\$)	406508.06	202697.89
APR		
ENERGY CONSUMPTION (UNIT/MO)	8553154.	36644.
PEAK DEMAND (UNIT/HR)	15449.	106.
TOTAL COST (\$)	383344.91	139247.84
MAY		
ENERGY CONSUMPTION (UNIT/MO)	8655362.	23390.
PEAK DEMAND (UNIT/HR)	15449.	90.
TOTAL COST (\$)	391046.94	88883.11
JUN		
ENERGY CONSUMPTION (UNIT/MO)	8247588.	14496.
PEAK DEMAND (UNIT/HR)	14920.	44.
TOTAL COST (\$)	376100.50	55083.22
JUL		
ENERGY CONSUMPTION (UNIT/MO)	8504710.	14464.
PEAK DEMAND (UNIT/HR)	14728.	36.
TOTAL COST (\$)	376092.34	54964.64
AUG		
ENERGY CONSUMPTION (UNIT/MO)	8512752.	14851.
PEAK DEMAND (UNIT/HR)	14795.	45.
TOTAL COST (\$)	389430.50	56434.28
SEP		
ENERGY CONSUMPTION (UNIT/MO)	8287259.	16662.
PEAK DEMAND (UNIT/HR)	15221.	66.
TOTAL COST (\$)	368901.53	63316.07
OCT		
ENERGY CONSUMPTION (UNIT/MO)	8743943.	29716.
PEAK DEMAND (UNIT/HR)	15221.	99.
TOTAL COST (\$)	389887.63	112922.45
NOV		
ENERGY CONSUMPTION (UNIT/MO)	8641702.	46648.
PEAK DEMAND (UNIT/HR)	15449.	107.
TOTAL COST (\$)	387538.88	177261.95
DEC		
ENERGY CONSUMPTION (UNIT/MO)	9024640.	66873.
PEAK DEMAND (UNIT/HR)	15449.	134.
TOTAL COST (\$)	403386.56	254117.88

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	103288480.	451581.
PEAK DEMAND (UNIT/HR)	15449.	158.
TOTAL COST (\$)	4643440.00	1716007.25

1200 Tons/Hr
Storage

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_1 = HOURLY-REPORT
PAGE 1- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/ 5/1995 10:23:13

MMDDHH	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR LOAD BTU/HR	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (6)	---- (1)	---- (20)	---- (21)
MONTHLY SUMMARY (JAN)						
MN	7604153.	3252076.	1.	10539409.	0.	400831.
MX	23643312.	6504046.	2.	29476180.	318865.	801662.
SM	11505107968.	3749958912.	1154.	14880073728.	64613428.	462559136.
AV	15463855.	5040268.	2.	20000100.	86846.	621719.
MONTHLY SUMMARY (FEB)						
MN	7725983.	3252094.	1.	10661092.	0.	400831.
MX	23764504.	6503864.	2.	29597096.	319308.	801662.
SM	10840133632.	3472866048.	1069.	13965714432.	70106584.	428488512.
AV	16131151.	5167956.	2.	20782314.	104325.	637632.
MONTHLY SUMMARY (MAR)						
MN	9393389.	3252037.	1.	12326497.	0.	400831.
MX	30042880.	6504056.	2.	35742908.	425317.	801662.
SM	13259436032.	4118991360.	1269.	16966528000.	105077080.	508654784.
AV	17821822.	5536279.	2.	22804474.	141233.	683676.
MONTHLY SUMMARY (APR)						
MN	9907528.	3252039.	1.	12840021.	0.	400831.
MX	30345800.	6503964.	2.	35989744.	639975.	801662.
SM	14343021568.	4221911552.	1303.	18142742528.	139249728.	522283104.
AV	19920864.	5863766.	2.	25198254.	193402.	725393.
MONTHLY SUMMARY (MAY)						
MN	11302996.	3252055.	1.	14233825.	0.	400831.
MX	30345800.	6503863.	2.	35989744.	863296.	801662.
SM	18089349120.	4613040128.	1436.	22241087488.	236051456.	575593600.
AV	24313642.	6200323.	2.	29893934.	317273.	773647.
MONTHLY SUMMARY (JUN)						
MN	9016006.	3237220.	1.	11932700.	0.	400831.
MX	60691600.	13718773.	4.	72139464.	1113640.	1603325.
SM	30326816768.	7322349568.	2263.	36916928512.	546493056.	907080960.
AV	42120580.	10169930.	3.	51273512.	759018.	1259835.
MONTHLY SUMMARY (JUL)						
MN	14911776.	6271049.	2.	20731804.	0.	801662.
MX	89708320.	22536138.	6.	107862104.	1113640.	2404987.
SM	37392404480.	9067334656.	2703.	45553008640.	655453632.	1083446400.
AV	50258608.	12187278.	4.	61227164.	880986.	1456245.

ACT #7
CHILLED
WATER
STORAGE

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/ 5/1995 10:23:13
 PDL RUN 1
 READING, PA 19603
 REP_1 = HOURLY-REPORT
 PAGE 2- 1

	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING BTU/HR	CERAMIC- TWR LOAD BTU/HR	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
	----(1)	----(3)	----(6)	----(1)	----(20)	----(21)
MONTHLY SUMMARY (AUG)						
MN	14586235.	3252160.	1.	17513178.	0.	400831.
MX	89277176.	21659110.	6.	107733136.	1113640.	2404987.
SM	36598652928.	8933062656.	2692.	44638408704.	646246848.	1079037568.
AV	49191736.	12006805.	4.	59997860.	868611.	1450319.
MONTHLY SUMMARY (SEP)						
MN	8725346.	3233693.	1.	11642373.	0.	400831.
MX	60691600.	14138610.	4.	72140320.	1113640.	1603325.
SM	26219841536.	6587972096.	2032.	32149016576.	449007840.	814488768.
AV	36416448.	9149961.	3.	44651412.	623622.	1131234.
MONTHLY SUMMARY (OCT)						
MN	6579702.	3233817.	1.	9499195.	0.	400831.
MX	57228504.	12857941.	4.	68749144.	1087323.	1603325.
SM	17281558528.	5040742912.	1559.	21818226688.	204244128.	624895872.
AV	23227902.	6775192.	2.	29325574.	274522.	839914.
MONTHLY SUMMARY (NOV)						
MN	9933108.	3252054.	1.	12865571.	0.	400831.
MX	30345800.	6503928.	2.	36069580.	972711.	801662.
SM	13110975488.	3914056960.	1208.	16633622528.	124979904.	484204064.
AV	18209688.	5436190.	2.	23102254.	173583.	672506.
MONTHLY SUMMARY (DEC)						
MN	8500417.	3252059.	1.	11434595.	0.	400831.
MX	25219452.	6503962.	2.	31048726.	328506.	801662.
SM	11670292480.	3772397056.	1161.	15065449472.	72068888.	465364960.
AV	15685877.	5070426.	2.	20249260.	96867.	625491.
YEARLY SUMMARY						
MN	6579702.	3233693.	1.	9499195.	0.	400831.
MX	89708320.	22536138.	6.	107862104.	1113640.	2404987.
SM	240637591552.	64814682112.	19849.	298970775552.	3313592832.	7956097536.
AV	27470044.	7398937.	2.	34129084.	378264.	908230.

ENTECH ENGINEERING
 PDL RUN 1
 READING, PA 19603
 REP 2 = HOURLY-REPORT
 PAGE 1- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/ 5/1995 10:23:13

MMDDHH	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	CTANK-ST ORAGE CAPACITY RUNNING BTU/HR	CTANK-ST ORAGE ENERGY AVAILABL BTU/HR	CTANK-ST ORAGE ENERGY REQUESTD BTU/HR	CTANK-ST ORAGE TANK TEMP F	CTANK-ST ORAGE TOTAL IN STORAGE BTU/HR
	---- (1)	---- (4)	---- (7)	---- (8)	---- (9)	---- (11)	---- (14)
MONTHLY SUMMARY (JAN)							
MN	0.	0.	0.	0.	0.	44.00	0.
MX	0.	0.	0.	0.	0.	44.06	0.
SM	0.	0.	0.	0.	0.	32758.17	0.
AV	0.	0.	0.	0.	0.	44.03	0.
MONTHLY SUMMARY (FEB)							
MN	0.	0.	0.	0.	0.	44.06	0.
MX	0.	0.	0.	0.	0.	44.11	0.
SM	0.	0.	0.	0.	0.	29626.09	0.
AV	0.	0.	0.	0.	0.	44.09	0.
MONTHLY SUMMARY (MAR)							
MN	0.	0.	0.	0.	0.	44.11	0.
MX	0.	0.	0.	0.	0.	44.17	0.
SM	0.	0.	0.	0.	0.	32842.45	0.
AV	0.	0.	0.	0.	0.	44.14	0.
MONTHLY SUMMARY (APR)							
MN	0.	0.	0.	0.	0.	44.17	0.
MX	0.	0.	0.	0.	0.	44.23	0.
SM	0.	0.	0.	0.	0.	31825.18	0.
AV	0.	0.	0.	0.	0.	44.20	0.
MONTHLY SUMMARY (MAY)							
MN	0.	0.	0.	0.	0.	44.23	0.
MX	0.	0.	0.	0.	0.	44.29	0.
SM	0.	0.	0.	0.	0.	32929.59	0.
AV	0.	0.	0.	0.	0.	44.26	0.
MONTHLY SUMMARY (JUN)							
MN	0.	0.	0.	0.	0.	32.00	0.
MX	14400000.	14400000.	14400000.	14400000.	14400000.	44.29	119998592.
SM	2361259008.	2364888320.	2361259008.	6590353920.	3962525952.	28453.68	32268836864.
AV	3279527.	3284567.	3279527.	9153269.	5503509.	39.52	44817828.
MONTHLY SUMMARY (JUL)							
MN	0.	0.	0.	0.	0.	32.00	0.
MX	14400000.	14400000.	14400000.	14400000.	14400000.	44.00	119998592.
SM	2193566720.	2285587200.	2193566720.	8790234112.	2948342272.	27856.92	48792186880.
AV	2948342.	3072026.	2948342.	11814831.	3962826.	37.44	65580896.

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_2 = HOURLY-REPORT
PAGE 2- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/ 5/1995 10:23:13

	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	CTANK-ST ORAGE CAPACITY RUNNING BTU/HR	CTANK-ST ORAGE ENERGY AVAILABL BTU/HR	CTANK-ST ORAGE ENERGY REQUESTD BTU/HR	CTANK-ST ORAGE TANK TEMP F	CTANK-ST ORAGE TOTAL IN STORAGE BTU/HR
	----(1)	----(4)	----(7)	----(8)	----(9)	----(11)	----(14)
MONTHLY SUMMARY (AUG)							
MN	0.	0.	0.	0.	0.	32.00	0.
MX	14400000.	14400000.	14400000.	14400000.	14400000.	44.00	119998592.
SM	2632864512.	2542553600.	2632864512.	9708712960.	3033636096.	27229.10	55069044736.
AV	3538797.	3417411.	3538797.	13049345.	4077468.	36.60	74017536.
MONTHLY SUMMARY (SEP)							
MN	0.	0.	0.	0.	0.	32.00	0.
MX	14400000.	14400000.	14400000.	14400000.	14400000.	44.01	119998592.
SM	2341631488.	2342380032.	2341631488.	6644628992.	3160046848.	28213.60	34668986368.
AV	3252266.	3253306.	3252266.	9228651.	4388954.	39.19	48151368.
MONTHLY SUMMARY (OCT)							
MN	0.	0.	0.	0.	0.	32.00	0.
MX	14400000.	14400000.	14400000.	14400000.	14400000.	44.00	119998592.
SM	2783820800.	2861414656.	2783820800.	7924092416.	2861414656.	28380.38	43559141376.
AV	3741695.	3845988.	3741695.	10650662.	3845988.	38.15	58547232.
MONTHLY SUMMARY (NOV)							
MN	0.	0.	0.	14400000.	0.	36.32	75923680.
MX	0.	0.	0.	14400000.	0.	36.41	76774976.
SM	0.	0.	0.	10368000000.	0.	26182.85	54971523072.
AV	0.	0.	0.	14400000.	0.	36.37	76349336.
MONTHLY SUMMARY (DEC)							
MN	0.	0.	0.	14400000.	0.	36.41	75042784.
MX	0.	0.	0.	14400000.	0.	36.50	75922496.
SM	0.	0.	0.	10713600000.	0.	27120.09	56159092736.
AV	0.	0.	0.	14400000.	0.	36.45	75482648.
YEARLY SUMMARY							
MN	0.	0.	0.	0.	0.	32.00	0.
MX	14400000.	14400000.	14400000.	14400000.	14400000.	44.29	119998592.
SM	12313142272.	12396823552.	12313142272.	60739624960.	15965965312.	353418.09	325488803840.
AV	1405610.	1415163.	1405610.	6933747.	1822599.	40.34	37156256.

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_3 = HOURLY-REPORT
PAGE 1- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/ 5/1995 10:23:13

MMDDHH GLOBAL GLOBAL

AMBIENT AMBIENT
DRYBULB WETBULB
F F

----(1) ----(2)

MONTHLY SUMMARY (JAN)

MN	6.0	4.000
MX	59.0	56.000
SM	22956.0	20501.000
AV	30.9	27.555

MONTHLY SUMMARY (FEB)

MN	6.0	4.000
MX	62.0	56.000
SM	23273.0	21225.000
AV	34.6	31.585

MONTHLY SUMMARY (MAR)

MN	22.0	18.000
MX	75.0	62.000
SM	31630.0	27192.000
AV	42.5	36.548

MONTHLY SUMMARY (APR)

MN	28.0	24.000
MX	83.0	66.000
SM	37106.0	32228.000
AV	51.5	44.761

MONTHLY SUMMARY (MAY)

MN	35.0	29.000
MX	87.0	69.000
SM	45840.0	39784.000
AV	61.6	53.473

MONTHLY SUMMARY (JUN)

MN	52.0	47.000
MX	96.0	78.000
SM	52340.0	46226.000
AV	72.7	64.203

MONTHLY SUMMARY (JUL)

MN	56.0	54.000
MX	96.0	80.000
SM	56668.0	51157.000
AV	76.2	68.759

ENTECH ENGINEERING
PDL RUN 1
READING, PA 19603
REP_3 = HOURLY-REPORT
PAGE 2- 1

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/ 5/1995 10:23:13

GLOBAL GLOBAL

AMBIENT AMBIENT
DRYBULB WETBULB
F F

----(1) ----(2)

MONTHLY SUMMARY (AUG)

MN	53.0	53.000
MX	95.0	79.000
SM	55501.0	50408.000
AV	74.6	67.753

MONTHLY SUMMARY (SEP)

MN	46.0	43.000
MX	94.0	77.000
SM	49421.0	44029.000
AV	68.6	61.151

MONTHLY SUMMARY (OCT)

MN	32.0	30.000
MX	82.0	67.000
SM	42445.0	38210.000
AV	57.0	51.358

MONTHLY SUMMARY (NOV)

MN	28.0	25.000
MX	82.0	73.000
SM	33256.0	29843.000
AV	46.2	41.449

MONTHLY SUMMARY (DEC)

MN	15.0	13.000
MX	62.0	58.000
SM	26096.0	23480.000
AV	35.1	31.559

YEARLY SUMMARY

MN	6.0	4.000
MX	96.0	80.000
SM	476532.0	424283.000
AV	54.4	48.434

MESSAGE LIST FROM ECONOMICS PROGRAM

WARNING***
PLANT UTILITY FUEL-OIL NOT ENTERED - DEFAULTS ASSUMED

CAUTION***
UTILITY NTRL-GAS NOT USED IN PLANT - WILL BE IGNORED

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/ 5/1995 10:23:13
 HDL RUN 1
 READING, PA 19603
 REPORT- BS-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT= 3413.00	FUEL-OIL UNIT= 138700.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	9847873.	470477.
PEAK DEMAND (UNIT/HR)	17098.	1042.
TOTAL COST (\$)	443096.31	557985.63
FEB		
ENERGY CONSUMPTION (UNIT/MO)	8917763.	381527.
PEAK DEMAND (UNIT/HR)	17098.	1052.
TOTAL COST (\$)	401242.38	452490.97
MAR		
ENERGY CONSUMPTION (UNIT/MO)	9929975.	312809.
PEAK DEMAND (UNIT/HR)	17110.	795.
TOTAL COST (\$)	451207.72	370991.88
APR		
ENERGY CONSUMPTION (UNIT/MO)	9629561.	188047.
PEAK DEMAND (UNIT/HR)	17229.	692.
TOTAL COST (\$)	431845.00	223024.08
MAY		
ENERGY CONSUMPTION (UNIT/MO)	10006903.	81031.
PEAK DEMAND (UNIT/HR)	17413.	574.
TOTAL COST (\$)	451724.00	96102.55
JUN		
ENERGY CONSUMPTION (UNIT/MO)	10807444.	9951.
PEAK DEMAND (UNIT/HR)	19998.	217.
TOTAL COST (\$)	488232.94	11802.10
JUL		
ENERGY CONSUMPTION (UNIT/MO)	11756589.	1821.
PEAK DEMAND (UNIT/HR)	23187.	142.
TOTAL COST (\$)	522856.25	2159.93
AUG		
ENERGY CONSUMPTION (UNIT/MO)	11702249.	5671.
PEAK DEMAND (UNIT/HR)	22502.	217.
TOTAL COST (\$)	536502.38	6725.46
SEP		
ENERGY CONSUMPTION (UNIT/MO)	10473024.	29024.
PEAK DEMAND (UNIT/HR)	20095.	375.
TOTAL COST (\$)	462057.19	34422.38
OCT		
ENERGY CONSUMPTION (UNIT/MO)	10157280.	131204.
PEAK DEMAND (UNIT/HR)	18689.	624.
TOTAL COST (\$)	451002.56	155607.84
NOV		
ENERGY CONSUMPTION (UNIT/MO)	9600024.	264909.
PEAK DEMAND (UNIT/HR)	17598.	701.
TOTAL COST (\$)	431007.75	314181.63
DEC		
ENERGY CONSUMPTION (UNIT/MO)	9859568.	418913.
PEAK DEMAND (UNIT/HR)	17098.	896.
TOTAL COST (\$)	441219.44	496830.59

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	122688256.	2295384.
PEAK DEMAND (UNIT/HR)	23187.	1052.
TOTAL COST (\$)	5511994.50	2722325.00

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
<hr/>								
JAN								
	OFF_PWIN	408	4896861.	195874.45	17098.	17098.	0.00	
	INT_WIN	168	2168780.	99763.90	16869.	16869.	0.00	
	ON_PWIN	168	2782226.	147457.98	17098.	17098.	0.00	
443096.31								
FEB								
	OFF_PWIN	368	4425239.	177009.58	17098.	17098.	0.00	
	INT_WIN	152	1981578.	91152.59	16869.	16869.	0.00	
	ON_PWIN	152	2510947.	133080.20	17098.	17098.	0.00	
401242.38								
MAR								
	OFF_PWIN	376	4460249.	178409.97	17110.	17110.	0.00	
	INT_WIN	184	2442543.	112356.98	16870.	16870.	0.00	
	ON_PWIN	184	3027184.	160440.78	17098.	17098.	0.00	
451207.72								
APR								
	OFF_PWIN	400	4898403.	195936.14	17098.	17098.	0.00	
	INT_WIN	160	2120300.	97533.80	16870.	16870.	0.00	
	ON_PWIN	160	2610850.	138375.06	17229.	17229.	0.00	
431845.00								
MAY								
	OFF_PWIN	392	4797812.	191912.47	17413.	17413.	0.00	
	INT_WIN	176	2324333.	106919.30	17028.	17028.	0.00	
	ON_PWIN	176	2884758.	152892.20	17391.	17391.	0.00	
451724.00								
JUN								
	OFF_PSUM	368	5060859.	172069.22	19933.	19933.	0.00	
	INT_SUM	176	2674985.	125724.30	19998.	19998.	0.00	
	ON_PSUM	176	3071604.	190439.45	19525.	19525.	0.00	
488232.94								
JUL								
	OFF_PSUM	424	5891615.	200314.91	22669.	22669.	0.00	
	INT_SUM	160	2739156.	128740.33	23187.	23187.	0.00	
	ON_PSUM	160	3125822.	193800.98	22194.	22194.	0.00	
522856.25								
AUG								
	OFF_PSUM	376	5102979.	173501.30	21412.	21412.	0.00	
	INT_SUM	184	3076883.	144613.48	22502.	22502.	0.00	
	ON_PSUM	184	3522381.	218387.61	22045.	22045.	0.00	
536502.38								
SEP								
	OFF_PSUM	400	5435743.	184815.27	20095.	20095.	0.00	
	INT_SUM	160	2337934.	109882.91	19813.	19813.	0.00	
	ON_PSUM	160	2699338.	167358.98	19285.	19285.	0.00	
462057.19								
OCT								
	OFF_PSUM	408	5121871.	174143.61	18652.	18652.	0.00	
	INT_SUM	168	2355737.	110719.63	18689.	18689.	0.00	
	ON_PSUM	168	2679667.	166139.33	18389.	18389.	0.00	
451002.56								

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	10947.83	318369.92
SPACE COOL	83319.23	0.00
HVAC AUX	42019.89	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	154498.79	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	127944.75	0.00
	-----	-----
TOTAL	418730.48	318369.92

TOTAL SITE ENERGY	737104.69 MBTU	309.6 KBTU/SQFT-YR GROSS-AREA	309.6 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	1575831.99 MBTU	661.9 KBTU/SQFT-YR GROSS-AREA	661.9 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 95.8
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 18.2

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING 19603 EDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/10/1995 11:56:23 SDL RUN 1
READING, PA
REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR DEFAULT-PLANT WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	9650.66406	9 13	59.F	56.F	15295.960	-32902.414	31 7	6.F	5.F	-85952.219	7278727.	9980.636
FEB	8811.03516	28 16	62.F	56.F	17628.199	-25708.396	3 7	6.F	4.F	-86055.023	6576452.	10071.413
MAR	9366.09961	1 6	65.F	62.F	30370.992	-18699.600	5 4	22.F	19.F	-57778.047	7299177.	10366.349
APR	6862.31689	19 17	83.F	63.F	41460.289	-8965.295	8 8	28.F	26.F	-47238.844	7114297.	10516.551
MAY	12272.81348	28 17	78.F	69.F	51664.422	-2904.852	10 5	35.F	29.F	-33899.012	7472921.	10739.647
JUN	27314.77344	28 17	91.F	77.F	94212.586	-99.882	22 6	52.F	47.F	-7370.306	7485145.	11583.874
JUL	38501.51953	24 19	89.F	80.F	102682.820	-12.145	21 5	56.F	54.F	-3119.688	7878816.	11556.280
AUG	34634.72266	31 15	90.F	79.F	97529.805	-41.287	22 4	53.F	53.F	-6793.372	7830316.	11581.631
SEP	21721.09570	2 14	92.F	76.F	84289.094	-652.833	30 8	46.F	43.F	-16547.738	7400522.	11453.542
OCT	8284.26270	13 14	82.F	67.F	46682.914	-5150.780	28 8	32.F	31.F	-39088.969	7427052.	10744.286
NOV	10218.31445	2 14	82.F	73.F	66985.898	-15182.826	23 7	28.F	25.F	-48753.648	7092279.	10746.001
DEC	9672.08398	29 6	59.F	58.F	20207.338	-27834.092	21 7	15.F	13.F	-69830.406	7279062.	10015.037
TOTAL	197310.047					-138154.125					88132888.	
MAX					102682.820					-86055.023		11583.874

ACT #8
Outdoor
Air
Reduction

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR BLD_7
 E2DOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/10/1995 11:56:23 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	2.73361	9 13	59.F	56.F	201.818	-395.770	31 7	6.F	5.F	-1242.406	130359.	187.097	
FEB	7.79866	28 16	62.F	56.F	357.541	-289.167	3 7	6.F	4.F	-1202.864	118056.	197.260	
MAR	39.58744	29 16	74.F	56.F	612.326	-159.189	5 6	23.F	20.F	-772.466	132571.	215.848	
APR	123.95550	20 14	78.F	66.F	952.614	-53.155	8 8	28.F	26.F	-617.025	133630.	242.914	
MAY	334.37982	21 17	82.F	66.F	1139.992	-10.086	10 7	36.F	30.F	-368.901	151236.	256.948	
JUN	650.41040	28 17	91.F	77.F	1822.667	0.000				0.000	169671.	309.113	
JUL	848.26263	24 19	89.F	80.F	1847.995	0.000				0.000	187632.	310.022	
AUG	787.59137	18 17	93.F	77.F	1796.270	0.000				0.000	183179.	308.919	
SEP	534.61896	2 14	92.F	76.F	1620.156	-0.032	30 8	46.F	43.F	-23.277	161078.	299.366	
OCT	224.13701	13 16	82.F	66.F	1015.712	-20.454	28 8	32.F	31.F	-444.073	144207.	247.837	
NOV	78.69498	2 14	82.F	73.F	1315.856	-124.683	23 7	28.F	25.F	-620.654	130932.	268.445	
DEC	3.34359	29 7	59.F	58.F	217.307	-317.204	22 7	16.F	14.F	-956.661	130399.	188.259	
TOTAL	3635.517					-1369.740					1772953.		
MAX					1847.995					-1242.406			310.022

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48_GENERAL
 E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/10/1995 11:56:23 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	381.89288	9 13	59.F	56.F	1501.954	-1201.396	31 7	6.F	5.F	-4459.179	489879.	658.443	
FEB	357.57541	28 16	62.F	56.F	2251.760	-856.360	3 7	6.F	4.F	-4093.808	442471.	658.443	
MAR	484.01801	29 16	74.F	56.F	3518.641	-432.911	5 6	23.F	20.F	-2293.320	489879.	658.443	
APR	733.60626	19 17	83.F	63.F	4740.308	-254.871	9 7	29.F	25.F	-1692.586	474076.	658.443	
MAY	1344.80310	21 17	82.F	66.F	5459.907	-84.728	2 3	52.F	48.F	-499.490	489879.	658.443	
JUN	2594.07861	10 18	92.F	77.F	8479.191	0.000				0.000	474076.	658.443	
JUL	3445.25244	25 18	91.F	79.F	9095.651	0.000				0.000	489879.	658.443	
AUG	3048.66626	18 17	93.F	77.F	8526.892	-0.499	22 4	53.F	53.F	-499.488	489879.	658.443	
SEP	2201.94165	7 17	89.F	74.F	7713.309	-22.606	22 4	50.F	47.F	-499.490	474076.	658.443	
OCT	1223.96326	13 17	78.F	66.F	4931.443	-150.363	28 8	32.F	31.F	-693.637	489879.	658.443	
NOV	692.19000	2 14	82.F	73.F	5999.702	-343.232	23 7	28.F	25.F	-1656.516	474076.	658.443	
DEC	388.26837	29 2	58.F	57.F	2039.547	-883.625	22 7	16.F	14.F	-3195.538	489879.	658.443	
TOTAL	16896.561					-4230.519					5768362.		
MAX					9095.651					-4459.179		658.443	

----- COOLING -----										----- HEATING -----										----- ELEC -----									
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)																	
JAN	0.00000				0.000	-2546.988	31	7	6.F	5.F	413270.	650.169																	
FEB	10.40430	28 17	60.F	55.F	952.441	-1915.117	3	7	6.F	4.F	373905.	707.926																	
MAR	93.03175	29 16	74.F	56.F	2501.630	-1208.355	5	7	24.F	20.F	419039.	815.959																	
APR	371.69562	19 17	83.F	63.F	4110.848	-518.460	8	8	28.F	26.F	423642.	949.456																	
MAY	1185.00354	21 17	82.F	66.F	5089.093	-118.999	10	7	36.F	30.F	490360.	1016.820																	
JUN	2518.70801	10 18	92.F	77.F	7608.369	0.000				0.000	573121.	1239.137																	
JUL	3310.42651	25 18	91.F	79.F	8160.751	0.000				0.000	641112.	1274.871																	
AUG	3025.57031	18 17	93.F	77.F	7642.015	0.000				0.000	621024.	1246.897																	
SEP	1972.80957	1 18	89.F	72.F	6958.067	-9.693	30	8	46.F	43.F	532021.	1210.900																	
OCT	694.62097	13 17	78.F	66.F	4287.255	-267.236	28	8	32.F	31.F	458379.	943.994																	
NOV	217.91878	2 15	81.F	72.F	5033.097	-1067.310	23	7	28.F	25.F	414180.	982.588																	
DEC	0.00000				0.000	-2197.096	22	7	16.F	14.F	413270.	650.169																	
TOTAL	13400.206					-9849.252					5773213.																		
MAX					8160.751					-7012.576		1274.871																	

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 54_AFIPSP
 E2DOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/10/1995 11:56:23 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	C O O L I N G					H E A T I N G					E L E C		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	33.93944	9 13	59.F	56.F	1900.002	-3644.374	17 19	6.F	4.F	-10883.411	929378.	1360.233	
FEB	49.84756	28 16	62.F	56.F	2444.933	-2727.859	3 6	6.F	4.F	-10846.154	840621.	1398.740	
MAR	235.70625	29 14	75.F	57.F	5053.963	-1754.915	5 4	22.F	19.F	-6943.017	941856.	1581.028	
APR	659.23621	19 14	83.F	64.F	7287.734	-675.773	8 8	28.F	26.F	-5420.951	938592.	1775.343	
MAY	1536.33984	19 13	77.F	68.F	8367.409	-172.234	11 2	35.F	30.F	-3759.638	1025622.	1811.050	
JUN	3325.58276	28 17	91.F	77.F	14407.431	0.000				0.000	1123927.	2244.603	
JUL	4648.01465	9 18	91.F	77.F	13619.016	0.000				0.000	1244364.	2207.408	
AUG	4300.96143	18 17	93.F	77.F	13614.819	0.000				0.000	1220410.	2222.444	
SEP	2898.02759	2 14	92.F	76.F	12181.978	-13.968	30 8	46.F	43.F	-1150.482	1088996.	2143.444	
OCT	1446.15845	13 14	82.F	67.F	8408.471	-347.408	28 8	32.F	31.F	-4528.100	1018756.	1845.173	
NOV	497.43384	2 11	78.F	72.F	10760.764	-1295.320	23 7	28.F	25.F	-5540.527	928728.	1963.790	
DEC	37.99460	28 14	62.F	57.F	2553.901	-2872.135	21 7	15.F	13.F	-8714.624	929673.	1405.524	
TOTAL	19669.221					-13504.005					12231591.		
MAX					14407.431					-10883.411		2244.603	

ENTECH ENGINEERING
READING, PA 19603
E2DOE - ELITE SOFTWARE DEVELOPMENT INC
DOE-2.1D 8/10/1995 11:56:23 SDL RUN 1
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48_HEATON WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					MAXIMUM COOLING LOAD (KBTU/HR)	HEATING					MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	HEATING ENERGY (MBTU)		TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP					
JAN	8627.30176	15 5	13.F	11.F	11693.745	-24225.752	31 7	6.F	5.F	-58789.977	4319428.	5805.631		
FEB	7820.42871	28 15	62.F	55.F	12386.813	-19252.305	3 7	6.F	4.F	-59869.523	3901419.	5805.631		
MAR	7978.51904	1 6	65.F	62.F	23099.789	-14726.472	5 4	22.F	19.F	-41758.391	4319428.	5805.631		
APR	4892.73340	19 17	83.F	63.F	32021.797	-7254.164	9 7	29.F	25.F	-34681.801	4180095.	5805.631		
MAY	8747.39160	28 17	78.F	69.F	40371.461	-2463.055	10 5	35.F	29.F	-26004.721	4319428.	5805.631		
JUN	20795.54492	30 16	86.F	78.F	74764.172	-99.724	22 6	52.F	47.F	-7333.777	4180095.	5805.631		
JUL	29877.50781	24 20	87.F	80.F	82739.453	-12.145	21 5	56.F	54.F	-3119.688	4319428.	5805.631		
AUG	26858.78711	31 14	89.F	79.F	78237.719	-40.739	22 4	53.F	53.F	-6269.707	4319428.	5805.631		
SEP	16304.99121	2 12	89.F	77.F	67770.242	-603.888	30 8	46.F	43.F	-13685.553	4180095.	5805.631		
OCT	5556.35742	13 14	82.F	67.F	35515.574	-4287.764	28 8	32.F	31.F	-29529.379	4319428.	5805.631		
NOV	8476.99023	2 14	82.F	73.F	52723.781	-12006.080	23 7	28.F	25.F	-35994.434	4180095.	5805.631		
DEC	8641.05078	29 6	59.F	58.F	15177.600	-20908.521	21 7	15.F	13.F	-49338.922	4319428.	5805.631		
TOTAL	154577.203					-105880.695					50854012.			
MAX					82739.453					-59869.523		5805.631		

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48_ADMIN
 E2DOE - ELITE SOFTWARE DEVELOPMENT INC
 DOE-2.1D 8/10/1995 11:56:23 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	281.10031	9 13	59.F	56.F	779.105	-0.633	31 7	6.F	5.F	-65.016	227888.	306.303
FEB	292.42172	28 16	62.F	56.F	843.858	-0.126	3 7	6.F	4.F	-36.344	205835.	306.303
MAR	408.53656	29 15	75.F	57.F	1086.225	0.000				0.000	227888.	306.303
APR	479.21790	19 16	83.F	63.F	1293.752	0.000				0.000	220537.	306.303
MAY	662.79010	21 17	82.F	66.F	1412.813	0.000				0.000	227888.	306.303
JUN	863.52612	30 16	86.F	78.F	1888.489	0.000				0.000	220537.	306.303
JUL	1004.94971	25 14	96.F	80.F	1952.547	0.000				0.000	227888.	306.303
AUG	963.56244	31 15	90.F	79.F	1925.568	0.000				0.000	227888.	306.303
SEP	775.51825	2 14	92.F	76.F	1783.525	0.000				0.000	220537.	306.303
OCT	566.55206	13 14	82.F	67.F	1299.625	0.000				0.000	227888.	306.303
NOV	394.64178	2 14	82.F	73.F	1496.991	0.000				0.000	220537.	306.303
DEC	272.36353	29 7	59.F	58.F	815.924	0.000				0.000	227888.	306.303
TOTAL	6965.189					-0.759				-65.016	2682954.	306.303
MAX					1952.547							

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 FITNESS
 E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/10/1995 11:56:23 SCL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC-			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	51.39704	9 13	59.F	56.F	208.701	-190.090	31 7	6.F	5.F	-649.285	72266.	97.131
FEB	50.49187	28 16	62.F	56.F	268.939	-131.617	3 7	6.F	4.F	-588.718	65273.	97.131
MAR	82.14308	29 16	74.F	56.F	416.673	-53.386	5 6	23.F	20.F	-353.791	72266.	97.131
APR	146.30630	20 14	78.F	66.F	628.419	-12.698	9 8	29.F	24.F	-261.897	69935.	97.131
MAY	233.67871	21 17	82.F	66.F	689.682	-0.715	10 7	36.F	30.F	-69.737	72266.	97.131
JUN	373.42697	28 17	91.F	77.F	1136.559	0.000				0.000	69935.	97.131
JUL	470.28455	25 18	91.F	79.F	1235.046	0.000				0.000	72266.	97.131
AUG	422.97275	31 16	90.F	78.F	1125.594	0.000				0.000	72266.	97.131
SEP	333.34177	1 18	89.F	72.F	1019.436	0.000				0.000	69935.	97.131
OCT	206.03949	13 17	78.F	66.F	625.798	-1.953	28 8	32.F	31.F	-128.504	72266.	97.131
NOV	104.83438	2 14	82.F	73.F	813.931	-37.341	23 7	28.F	25.F	-261.136	69935.	97.131
DEC	51.58225	29 6	59.F	58.F	234.354	-141.644	22 7	16.F	14.F	-481.764	72266.	97.131
TOTAL	2526.488					-569.443					850825.	
MAX					1235.046					-649.285		97.131

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 MRI
 E2D08 - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/10/1995 11:56:23 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	14.40490	8 22	59.F	52.F	60.567	-219.188	17 19	6.F	4.F	-595.930	27746.	37.293
FEB	13.53719	28 16	62.F	56.F	90.158	-168.980	3 7	6.F	4.F	-603.942	25061.	37.293
MAR	18.27430	1 6	65.F	62.F	210.989	-119.506	5 4	22.F	19.F	-401.397	27746.	37.293
APR	28.69227	20 14	78.F	66.F	249.995	-55.078	8 7	28.F	27.F	-327.398	26851.	37.293
MAY	55.89507	26 17	79.F	68.F	331.887	-16.736	11 2	35.F	30.F	-245.715	27746.	37.293
JUN	167.32713	30 17	86.F	78.F	750.162	-0.157	22 6	52.F	47.F	-36.528	26851.	37.293
JUL	245.47079	25 14	96.F	80.F	834.074	0.000				0.000	27746.	37.293
AUG	215.03352	31 15	90.F	79.F	790.626	-0.048	22 4	53.F	53.F	-24.176	27746.	37.293
SEP	123.32504	2 14	92.F	76.F	644.582	-2.645	30 8	46.F	43.F	-109.849	26851.	37.293
OCT	42.06193	2 17	67.F	64.F	277.590	-30.903	28 8	32.F	31.F	-283.595	27746.	37.293
NOV	28.22661	2 14	82.F	73.F	465.376	-93.642	9 7	28.F	26.F	-332.863	26851.	37.293
DEC	14.86966	29 6	59.F	58.F	100.613	-181.246	21 7	15.F	13.F	-486.553	27746.	37.293
TOTAL	967.163					-888.131					326673.	
MAX					834.074					-603.942		37.293

ENERGY TYPE	ELECTRICITY	FUEL-OIL
IN SITE MBTU -		
CATEGORY OF USE		
SPACE HEAT	0.00	219405.65
SPACE COOL	88949.56	0.00
HVAC AUX	44790.03	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	149796.55	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	106362.27	0.00
TOTAL	389898.40	219405.65

TOTAL SITE ENERGY 609110.80 MBTU 255.9 KBTU/SQFT-YR GROSS-AREA 255.9 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 1390292.63 MBTU 584.0 KBTU/SQFT-YR GROSS-AREA 584.0 KBTU/SQFT-YR NET-AREA
 PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 74.6
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 15.2

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	OPEN-CEN		OPEN-CEN		OPEN-CEN		CERAMIC-		CERAMIC-					
	T-CHLR	T-CHLR	T-CHLR	T-CHLR	T-CHLR	T-CHLR	TWR	TWR	TWR	TWR				
	LOAD	LOAD	ELECTRIC	SIZES	FAN	PUMP	ELRC	ELRC	ELRC	ELRC				
	BTU/HR	BTU/HR	USE	RUNNING	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR				
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR				
---- (1)											---- (3)	---- (6)	---- (20)	---- (21)
MONTHLY SUMMARY (JAN)														
MN	14323221.		3248364.	1.		0.	400831.		0.	400831.				
MX	17025062.		6496725.	2.		0.	801662.		0.	801662.				
SM	10937115648.		3449669632.	1062.		0.	425682624.		0.	425682624.				
AV	14700424.		4636653.	1.		0.	572154.		0.	572154.				
MONTHLY SUMMARY (FEB)														
MN	14293720.		3248364.	1.		0.	400831.		0.	400831.				
MX	19357302.		6496727.	2.		301020.	801662.		801662.	801662.				
SM	9972993024.		3686563072.	1135.		600916.	454943424.		454943424.	454943424.				
AV	14840763.		5485957.	2.		894.	676999.		676999.	676999.				
MONTHLY SUMMARY (MAR)														
MN	30511135.		3248365.	1.		0.	400831.		0.	400831.				
MX	29583944.		6496726.	2.		439291.	801662.		801662.	801662.				
SM	10652548096.		4138385920.	1274.		6366841.	510658912.		510658912.	510658912.				
AV	14317941.		5562347.	2.		8558.	686370.		686370.	686370.				
MONTHLY SUMMARY (APR)														
MN	2942867.		3248370.	1.		0.	400831.		0.	400831.				
MX	30345800.		6496721.	2.		639453.	801662.		801662.	801662.				
SM	8054125056.		3118652160.	960.		32129928.	384797824.		384797824.	384797824.				
AV	11186285.		4331462.	1.		44625.	534441.		534441.	534441.				
MONTHLY SUMMARY (MAY)														
MN	3164102.		3248373.	1.		0.	400831.		0.	400831.				
MX	30345800.		6496385.	2.		863296.	801662.		801662.	801662.				
SM	12731153408.		3599585280.	1117.		155346864.	447728416.		447728416.	447728416.				
AV	17111766.		4838153.	2.		208800.	601786.		601786.	601786.				
MONTHLY SUMMARY (JUN)														
MN	5502061.		9406573.	3.		0.	1202494.		0.	1202494.				
MX	45518700.		10312154.	3.		1113640.	1202494.		1202494.	1202494.				
SM	23875368960.		6969922560.	2160.		492209248.	865795328.		865795328.	865795328.				
AV	33160234.		9680448.	3.		683624.	1202494.		1202494.	1202494.				
MONTHLY SUMMARY (JUL)														
MN	6411499.		3248950.	1.		0.	400831.		0.	400831.				
MX	87686576.		22523696.	6.		1113640.	2404987.		2404987.	2404987.				
SM	33747425280.		11311746048.	3395.		661083456.	1360821888.		1360821888.	1360821888.				
AV	45359444.		15203960.	5.		888553.	1829062.		1829062.	1829062.				

OPEN-CEN T-CHLR LOAD	OPEN-CEN T-CHLR ELECTRIC USE	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC	CERAMIC- TWR FAN ELEC	BTU/HR	BTU/HR	BTU/HR	BTU/HR
----- (1)	----- (3)	----- (6)	----- (20)	----- (21)				
MONTHLY SUMMARY (AUG)								
MN 5646301.	3249042.	1.	0.	400831.				
MX 88564248.	2282480.	6.	1113640.	2404987.				
SM 32031647744.	12118665216.	3689.	659955456.	1478666112.				
AV 43053288.	16288529.	5.	887037.	1987455.				
MONTHLY SUMMARY (SEP)								
MN 4281507.	9406573.	3.	0.	1202494.				
MX 45518700.	10514351.	3.	1113640.	1202494.				
SM 20046041088.	6980566016.	2160.	388998464.	865795328.				
AV 27841724.	9695231.	3.	540276.	1202494.				
MONTHLY SUMMARY (OCT)								
MN 3011026.	6830854.	3.	0.	1202494.				
MX 44784216.	9793802.	3.	988172.	1202494.				
SM 9570713600.	7114900992.	2232.	111987400.	894655168.				
AV 12863862.	9563039.	3.	150521.	1202494.				
MONTHLY SUMMARY (NOV)								
MN 3040564.	3248364.	1.	0.	400831.				
MX 30345800.	6496727.	2.	972711.	801662.				
SM 10711128064.	3732124416.	1151.	42380364.	461356608.				
AV 14876567.	5183506.	2.	58862.	640773.				
MONTHLY SUMMARY (DEC)								
MN 14270396.	3248366.	1.	0.	400831.				
MX 21936440.	6496727.	2.	316917.	801662.				
SM 10958535680.	3231953664.	995.	1859071.	398827040.				
AV 14729215.	4344024.	1.	2499.	536058.				
YEARLY SUMMARY								
MN 2942867.	3248364.	1.	0.	400831.				
MX 88564248.	22523696.	6.	1113640.	2404987.				
SM 193288798208.	69452734464.	21330.	2552918016.	8545728768.				
AV 22064932.	7928395.	2.	291429.	975996.				

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING CHARGE (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	OFF_PWIN	408	4721467.	188858.67	12403.	12403.	0.00	
	INT_WIN	168	1937354.	89118.27	12299.	12299.	0.00	
	ON_PWIN	168	1967939.	104300.79	12299.	12299.	0.00	382277.72
FEB	OFF_PWIN	368	4351113.	174044.53	12351.	12351.	0.00	
	INT_WIN	152	1804649.	83013.84	12337.	12337.	0.00	
	ON_PWIN	152	1826326.	96795.27	12493.	12493.	0.00	353853.66
MAR	OFF_PWIN	376	4452344.	178093.77	12722.	12722.	0.00	
	INT_WIN	184	2204536.	101408.68	12674.	12674.	0.00	
	ON_PWIN	184	2218908.	117602.13	12876.	12876.	0.00	397104.56
APR	OFF_PWIN	400	4601501.	184060.03	12942.	12942.	0.00	
	INT_WIN	160	1854526.	85308.20	12758.	12758.	0.00	
	ON_PWIN	160	1899933.	100696.45	13060.	13060.	0.00	370064.69
MAY	OFF_PWIN	392	4681343.	187253.73	13286.	13286.	0.00	
	INT_WIN	176	2076301.	95509.86	13065.	13065.	0.00	
	ON_PWIN	176	2159308.	114443.34	13141.	13141.	0.00	397206.94
JUN	OFF_PWIN	368	5145704.	174953.95	15461.	15461.	0.00	
	INT_SUM	176	2470892.	116131.91	15159.	15159.	0.00	
	ON_PWIN	176	2514517.	155900.05	15433.	15433.	0.00	446985.94
JUL	OFF_PWIN	424	6260894.	212870.39	19079.	19079.	0.00	
	INT_SUM	160	2841510.	133550.98	19326.	19326.	0.00	
	ON_PWIN	160	2895968.	179550.02	19384.	19384.	0.00	525971.38
AUG	OFF_PWIN	376	5677486.	193034.52	18914.	18914.	0.00	
	INT_SUM	184	3240386.	152298.16	19004.	19004.	0.00	
	ON_PWIN	184	3302607.	204761.61	19239.	19239.	0.00	550094.31
SEP	OFF_PWIN	400	5557391.	188951.30	15098.	15098.	0.00	
	INT_SUM	160	2209121.	103828.68	14917.	14917.	0.00	
	ON_PWIN	160	2252824.	139675.08	15253.	15253.	0.00	432455.06
OCT	OFF_PWIN	408	5464551.	185794.73	14355.	14355.	0.00	
	INT_SUM	168	2254761.	105973.77	13974.	13974.	0.00	
	ON_PWIN	168	2299973.	142598.33	14444.	14444.	0.00	434366.81

-----CONTINUED-----									
MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)	
NOV	OFF_PWIN	400	4726973.	189078.91	13152.	13152.	0.00		
	INT_WIN	160	1890410.	86958.85	13352.	13352.	0.00		
	ON_PWIN	160	1921722.	101851.29	13363.	13363.	0.00	377889.03	
DEC	OFF_PWIN	424	4877769.	195110.75	12526.	12526.	0.00		
	INT_WIN	160	1820643.	83749.57	12372.	12372.	0.00		
	ON_PWIN	160	1857570.	98451.23	12422.	12422.	0.00	377311.53	
TOTAL			114241104.	5045581.50			0.00	5045581.50	

ENTECH ENGINEERING 19603 EDOE - ELITE SOFTWARE DEVELOPMENT INC 16:16:51 SCL RUN 1
READING, PA
REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR 19603 DOE-2.1D 8/ 4/1995
DEFAULT-PLANT WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	9658.68652	9 13	59.F	56.F	15525.513	-39585.785	31 7	6.F	5.F	-105174.102	7278658.	9974.583
FEB	8821.94727	28 15	62.F	55.F	17900.859	-30852.945	3 7	6.F	4.F	-106161.359	6575873.	10058.191
MAR	9376.54883	1 6	65.F	62.F	35134.438	-22291.625	5 6	23.F	20.F	-71443.281	7295931.	10357.718
APR	6785.54785	20 14	78.F	66.F	44001.125	-10395.026	8 7	28.F	27.F	-59776.961	7103840.	10539.354
MAY	11695.64746	28 17	78.F	69.F	54931.406	-3265.857	10 7	36.F	30.F	-41950.785	7455450.	10764.810
JUN	27458.62891	28 17	91.F	77.F	110877.438	-100.418	22 6	52.F	47.F	-7714.698	7458804.	11602.413
JUL	39775.48047	25 14	96.F	80.F	122410.703	-12.161	21 5	56.F	54.F	-3119.688	7848124.	11561.323
AUG	35472.04297	31 15	90.F	79.F	115665.773	-41.127	22 4	53.F	53.F	-6419.787	7799931.	11598.717
SEP	21522.20313	2 12	89.F	77.F	99495.773	-685.674	30 8	46.F	43.F	-19243.379	7379022.	11475.604
OCT	8112.40137	13 16	82.F	66.F	46157.563	-5904.281	28 8	32.F	31.F	-50054.891	7413010.	10766.478
NOV	10139.44727	2 14	82.F	73.F	74790.594	-17905.180	23 7	28.F	25.F	-61764.344	7088950.	10768.788
DEC	9681.85449	29 6	59.F	58.F	20930.740	-33417.570	21 7	15.F	13.F	-86907.500	7278922.	10017.823
TOTAL	198500.547					-164457.516					87974408.	
MAX					122410.703					-106161.359		11602.413

ALT # 9
UNOCCUPIED
CONTROL
BLOGS
1, 2, 11, 40, + 41

ENTECH ENGINEERING
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR
EZDOE - ELITE SOFTWARE DEVELOPMENT INC
DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1
BLD 7 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING						HEATING						ELEC	
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)		HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)		ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	1.55180	9 13	59.F	56.F	216.552		-337.968	31 6	7.F	6.F	-1576.211		130290.	187.979
FEB	4.18165	28 16	62.F	56.F	355.838		-243.825	3 6	6.F	4.F	-1546.491		117852.	197.154
MAR	26.59831	29 16	74.F	56.F	602.423		-116.974	5 6	23.F	20.F	-1130.179		131818.	215.222
APR	91.18903	20 14	78.F	66.F	1036.906		-36.201	9 6	29.F	25.F	-935.612		131661.	247.017
MAY	285.75220	21 17	82.F	66.F	1197.417		-4.848	10 7	36.F	30.F	-502.709		148320.	261.104
JUN	579.68933	28 17	91.F	77.F	1882.791		0.000	15 18	78.F	61.F	-0.001		164987.	310.892
JUL	765.69666	25 11	90.F	80.F	1834.539		0.000				0.000		182126.	310.246
AUG	703.44177	31 14	89.F	79.F	1847.189		0.000				0.000		177618.	309.674
SEP	471.76221	2 12	89.F	77.F	1723.081		-0.005	29 23	50.F	46.F	-2.699		157030.	303.931
OCT	182.82260	13 16	82.F	66.F	1080.571		-11.018	28 7	32.F	31.F	-555.006		141727.	252.620
NOV	64.58344	2 14	82.F	73.F	1419.922		-88.141	23 7	28.F	25.F	-933.870		130130.	275.598
DEC	1.00031	29 6	59.F	58.F	260.569		-259.948	22 6	16.F	14.F	-1310.004		130260.	190.707
TOTAL	3178.269						-1098.928						1743818.	
MAX					1882.791						-1576.211			310.892

ENTECH ENGINEERING
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR
EZZOE - ELITE SOFTWARE DEVELOPMENT INC
DOE-2.1D 8/4/1995 16:16:51 SDL RUN 1
48 GENERAL WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	384.42691	8 22	59.F	52.F	1560.025	-4981.119	31 7	6.F	5.F	-13699.482	489879.	658.443	
FEB	361.94824	28 16	62.F	56.F	2374.213	-3808.562	3 7	6.F	4.F	-13892.849	442471.	658.443	
MAR	511.68246	29 15	75.F	57.F	5808.886	-2610.200	5 4	22.F	19.F	-9144.771	489879.	658.443	
APR	764.88245	19 11	74.F	61.F	5590.978	-1140.072	8 8	28.F	26.F	-7414.337	474076.	658.443	
MAY	1170.97815	26 11	70.F	67.F	9240.319	-316.100	10 5	35.F	29.F	-5349.235	489879.	658.443	
JUN	2742.59399	28 17	91.F	77.F	17951.648	-0.297	22 6	52.F	47.F	-257.330	474076.	658.443	
JUL	4067.98926	25 14	96.F	80.F	20306.863	-0.011	18 1	68.F	68.F	-6.000	489879.	658.443	
AUG	3496.61743	31 15	90.F	79.F	18743.852	-0.184	22 4	53.F	53.F	-98.079	489879.	658.443	
SEP	2092.70850	2 14	92.F	76.F	15399.860	-38.372	30 8	46.F	43.F	-2165.799	474076.	658.443	
OCT	1111.33569	1 17	74.F	63.F	8116.458	-613.819	28 8	32.F	31.F	-6301.521	489879.	658.443	
NOV	621.37177	1 10	72.F	71.F	12659.014	-2041.868	23 7	28.F	25.F	-7548.288	474076.	658.443	
DEC	394.64340	29 6	59.F	58.F	2519.949	-4097.769	21 7	15.F	13.F	-11146.239	489879.	658.443	
TOTAL	17721.480					-19648.348					5768362.		
MAX					20306.863					-13892.849		658.443	

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	0.00000				0.000	-2253.873	31	7	6.F	5.F	413270.	650.169	
FEB	4.10562	28	17	60.F	55.F	-1675.140	3	7	6.F	4.F	373528.	694.796	
MAR	52.30265	29	16	74.F	56.F	-975.661	5	6	23.F	20.F	416551.	807.787	
APR	233.35985	19	17	83.F	63.F	-397.741	9	7	29.F	25.F	415154.	963.876	
MAY	958.02203	21	17	82.F	66.F	-70.297	10	7	36.F	30.F	475802.	1037.827	
JUN	2193.18042	28	17	91.F	77.F	-0.145	17	4	54.F	52.F	551462.	1249.368	
JUL	2931.59204	25	17	94.F	79.F	0.000				0.000	615923.	1280.544	
AUG	2652.57520	18	17	93.F	77.F	-0.153	22	3	53.F	53.F	596191.	1263.353	
SEP	1693.65442	7	17	89.F	74.F	-3.505	30	8	46.F	43.F	514570.	1229.895	
OCT	508.32101	13	17	78.F	66.F	-176.968	28	8	32.F	31.F	446814.	962.775	
NOV	176.73238	2	15	81.F	72.F	-848.563	23	7	28.F	25.F	411651.	1003.534	
DEC	0.00000				0.000	-1907.827	22	7	16.F	14.F	413270.	650.169	
TOTAL	11403.850					-8309.871					5644044.		
MAX					8202.170					-8559.861		1280.544	

ENTECH ENGINEERING
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR
EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1
54_AFTSP WEATHER FILE- BALTIMORE, MD

MONTH	C O O L I N G				H E A T I N G				E L E C			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	33.93944	9 13	59.F	56.F	1900.002	-3644.374	17 19	6.F	4.F	-10883.411	929378.	1360.231
FEB	49.84756	28 16	62.F	56.F	2444.933	-2727.859	3 6	6.F	4.F	-10846.154	840621.	1398.740
MAR	235.70625	29 14	75.F	57.F	5053.963	-1754.915	5 4	22.F	19.F	-6943.017	941856.	1581.028
APR	659.23621	19 14	83.F	64.F	7287.734	-675.773	8 8	28.F	26.F	-5420.951	938592.	1775.343
MAY	1536.33984	19 13	77.F	68.F	8367.409	-172.234	11 2	35.F	30.F	-3759.638	1025622.	1811.050
JUN	3325.58276	28 17	91.F	77.F	14407.431	0.000				0.000	1123927.	2244.603
JUL	4648.01465	9 18	91.F	77.F	13619.016	0.000				0.000	1244364.	2207.408
AUG	4300.96143	18 17	93.F	77.F	13614.819	0.000				0.000	1220410.	2222.444
SEP	2898.02759	2 14	92.F	76.F	12181.978	-13.968	30 8	46.F	43.F	-1150.482	1088996.	2143.444
OCT	1446.15845	13 14	82.F	67.F	8408.471	-347.408	28 8	32.F	31.F	-4528.100	1018756.	1845.173
NOV	497.43384	2 11	78.F	72.F	10760.764	-1295.320	23 7	28.F	25.F	-5540.527	928728.	1963.790
DEC	37.99460	28 14	62.F	57.F	2553.901	-2872.135	21 7	15.F	13.F	-8714.624	929673.	1405.524
TOTAL	19669.221					-13504.005					12231591.	
MAX					14407.431					-10883.411		2244.603

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 HEATON
 EZZOE - ELITE SOFTWARE DEVELOPMENT INC
 DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	8627.30176	15 5	13.F	11.F	11693.745	-24225.752	31 7	6.F	5.F	-58789.977	4319428.	5805.631
FEB	7820.42871	28 15	62.F	55.F	12386.813	-19252.305	3 7	6.F	4.F	-59869.523	3901419.	5805.631
MAR	7978.51904	1 6	65.F	62.F	23099.789	-14726.472	5 4	22.F	19.F	-41758.391	4319428.	5805.631
APR	4892.73340	19 17	83.F	63.F	32021.797	-7254.164	9 7	29.F	25.F	-34681.801	4180095.	5805.631
MAY	8747.39160	28 17	78.F	69.F	40371.461	-2463.055	10 5	35.F	29.F	-26004.721	4319428.	5805.631
JUN	20795.54492	30 16	86.F	78.F	74764.172	-99.724	22 6	52.F	47.F	-7333.777	4180095.	5805.631
JUL	29877.50781	24 20	87.F	80.F	82739.453	-12.145	21 5	56.F	54.F	-3119.688	4319428.	5805.631
AUG	26858.78711	31 14	89.F	79.F	78237.719	-40.739	22 4	53.F	53.F	-6269.707	4319428.	5805.631
SEP	16304.99121	2 12	89.F	77.F	67770.242	-603.888	30 8	46.F	43.F	-13685.553	4180095.	5805.631
OCT	5556.35742	13 14	82.F	67.F	35515.574	-4287.764	28 8	32.F	31.F	-29529.379	4319428.	5805.631
NOV	8476.99023	2 14	82.F	73.F	52723.781	-12006.080	23 7	28.F	25.F	-35994.434	4180095.	5805.631
DEC	8641.05078	29 6	59.F	58.F	15177.600	-20908.521	21 7	15.F	13.F	-49338.922	4319428.	5805.631
TOTAL	154577.203					-105880.695					50854012.	
MAX					82739.453					-59869.523		5805.631

MONTH	COOLING				MAXIMUM COOLING LOAD (KBTU/HR)	HEATING				MAXIMUM HEATING LOAD (KBTU/HR)	ELEC	
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP		HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP		TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	281.10031	9 13	59.F	56.F	779.105	-0.633	31 7	6.F	5.F	-65.016	227888.	306.303
FEB	292.42172	28 16	62.F	56.F	843.858	-0.126	3 7	6.F	4.F	-36.344	205835.	306.303
MAR	408.53656	29 15	75.F	57.F	1086.225	0.000				0.000	227888.	306.303
APR	479.21790	19 16	83.F	63.F	1293.752	0.000				0.000	220537.	306.303
MAY	662.79010	21 17	82.F	66.F	1412.813	0.000				0.000	227888.	306.303
JUN	863.52612	30 16	86.F	78.F	1888.489	0.000				0.000	220537.	306.303
JUL	1004.94971	25 14	96.F	80.F	1952.547	0.000				0.000	227888.	306.303
AUG	963.56244	31 15	90.F	79.F	1925.568	0.000				0.000	227888.	306.303
SEP	775.51825	2 14	92.F	76.F	1783.525	0.000				0.000	220537.	306.303
OCT	566.55206	13 14	82.F	67.F	1299.625	0.000				0.000	227888.	306.303
NOV	394.64178	2 14	82.F	73.F	1496.991	0.000				0.000	220537.	306.303
DEC	272.36353	29 7	59.F	58.F	815.924	0.000				0.000	227888.	306.303
TOTAL	6965.189					-0.759				-65.016	2682954.	306.303
MAX					1952.547							

ENTECH ENGINEERING
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR
EZZOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1
48_WRAIR WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	300.06345	8 22	59.F	52.F	1355.893	-3732.795	17 19	6.F	4.F	-10409.997	668532.	898.569	
FEB	283.12122	28 16	62.F	56.F	1956.609	-2844.543	3 7	6.F	4.F	-10575.047	603835.	898.569	
MAR	377.38864	1 6	65.F	62.F	5355.463	-1934.514	5 4	22.F	19.F	-6913.070	668532.	898.569	
APR	493.55014	20 14	78.F	66.F	5376.899	-823.302	8 8	28.F	26.F	-5571.383	646966.	898.569	
MAY	887.08594	28 17	78.F	69.F	6871.916	-222.216	11 2	35.F	30.F	-4016.310	668532.	898.569	
JUN	2597.07520	30 16	86.F	78.F	14474.282	-0.093	22 6	52.F	47.F	-87.061	646966.	898.569	
JUL	4170.10303	25 14	96.F	80.F	15946.209	-0.006	31 4	65.F	64.F	-3.254	668532.	898.569	
AUG	3577.51294	31 14	89.F	79.F	15143.452	-0.003	8 4	66.F	65.F	-2.680	668532.	898.569	
SEP	1997.57361	2 12	89.F	77.F	13150.514	-23.290	30 8	46.F	43.F	-1511.002	646966.	898.569	
OCT	671.49591	30 15	70.F	65.F	7263.270	-434.500	28 8	32.F	31.F	-4738.718	668532.	898.569	
NOV	533.64032	2 14	82.F	73.F	9740.532	-1494.679	23 7	28.F	25.F	-5674.818	646966.	898.569	
DEC	307.34085	29 6	59.F	58.F	2083.525	-3048.474	21 7	15.F	13.F	-8452.755	668532.	898.569	
TOTAL	16196.079					-14558.429					7871080.		
MAX					15946.209					-10575.047		898.569	

ENTECH ENGINEERING 19603 EDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1
READING, PA
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 MRI WEATHER FILE- BALTIMORE, MD

MONTH	C O O L I N G					H E A T I N G					E L E C	
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	14.40490	8 22	59.F	52.F	60.567	-219.188	17 19	6.F	4.F	-595.930	27746.	37.293
FEB	13.53719	28 16	62.F	56.F	90.158	-168.980	3 7	6.F	4.F	-603.942	25061.	37.293
MAR	18.27430	1 6	65.F	62.F	210.989	-119.506	5 4	22.F	19.F	-401.397	27746.	37.293
APR	28.69227	20 14	78.F	66.F	249.995	-55.078	8 7	28.F	27.F	-327.398	26851.	37.293
MAY	55.89507	26 17	79.F	68.F	331.887	-16.736	11 2	35.F	30.F	-245.715	27746.	37.293
JUN	167.32713	30 17	86.F	78.F	750.162	-0.157	22 6	52.F	47.F	-36.528	26851.	37.293
JUL	245.47079	25 14	96.F	80.F	834.074	0.000				0.000	27746.	37.293
AUG	215.03352	31 15	90.F	79.F	790.626	-0.048	22 4	53.F	53.F	-24.176	27746.	37.293
SEP	123.32504	2 14	92.F	76.F	644.582	-2.645	30 8	46.F	43.F	-109.849	26851.	37.293
OCT	42.06193	2 17	67.F	64.F	277.590	-30.903	28 8	32.F	31.F	-283.595	27746.	37.293
NOV	28.22661	2 14	82.F	73.F	465.376	-93.642	9 7	28.F	26.F	-332.863	26851.	37.293
DEC	14.86966	29 6	59.F	58.F	100.613	-181.246	21 7	15.F	13.F	-486.553	27746.	37.293
TOTAL	967.163					-888.131					326673.	
MAX					834.074					-603.942		37.293

MMDDHH	OPEN-CEN T-CHLR LOAD	OPEN-CEN T-CHLR ELECTRIC USE	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR PAN ELEC	CERAMIC- TWR PUMP ELEC	BTU/HR
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
	---- (1)	---- (3)	---- (6)	---- (20)	---- (21)	
MONTHLY SUMMARY (JAN)						
MN	14323141.	3252053.	1.	0.	0.	400831.
MX	17254616.	6504104.	2.	0.	0.	801662.
SM	10945137664.	3538115584.	1088.	0.	0.	436104256.
AV	14711207.	4755532.	1.	0.	0.	586162.
MONTHLY SUMMARY (FEB)						
MN	14360108.	3252053.	1.	0.	0.	400831.
MX	19629962.	6504105.	2.	302401.	801662.	801662.
SM	9983905792.	3742786560.	1151.	604040.	461356704.	461356704.
AV	14857003.	5569623.	2.	899.	686543.	686543.
MONTHLY SUMMARY (MAR)						
MN	3051075.	3252053.	1.	0.	0.	400831.
MX	29571134.	6504104.	2.	439259.	801662.	801662.
SM	10662998016.	4227559424.	1300.	6405217.	521080544.	521080544.
AV	14331987.	5682204.	2.	8609.	700377.	700377.
MONTHLY SUMMARY (APR)						
MN	3122064.	3252054.	1.	0.	0.	400831.
MX	30083156.	6504082.	2.	639224.	801662.	801662.
SM	8001062912.	3096463360.	952.	29637776.	381591168.	381591168.
AV	11112587.	4300644.	1.	41164.	529988.	529988.
MONTHLY SUMMARY (MAY)						
MN	3163950.	3252128.	1.	0.	0.	400831.
MX	30345800.	6504103.	2.	863296.	801662.	801662.
SM	12356529152.	3591726592.	1112.	146561344.	445724256.	445724256.
AV	16608238.	4827590.	1.	196991.	599092.	599092.
MONTHLY SUMMARY (JUN)						
MN	5804496.	9406573.	3.	0.	0.	1202494.
MX	45518700.	10312154.	3.	1113640.	1202494.	1202494.
SM	23234859008.	6981632512.	2160.	483220256.	865795328.	865795328.
AV	32270638.	9696712.	3.	671139.	1202494.	1202494.
MONTHLY SUMMARY (JUL)						
MN	6296707.	3252671.	1.	0.	0.	400831.
MX	89498208.	22523626.	6.	1113640.	2404987.	2404987.
SM	34112008192.	11366473728.	3396.	657272832.	1361222656.	1361222656.
AV	45849472.	15277518.	5.	883431.	1829600.	1829600.

OPEN-CEN T-CHLR LOAD	OPEN-CEN T-CHLR ELECTRIC USE	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC	CERAMIC- TWR PUMP ELEC
BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
----(1)	----(3)	----(6)	----(20)	----(21)

MONTHLY SUMMARY (AUG)

MN	5735534.	3253306.	1.	0.	400831.
MX	89214016.	22282284.	6.	1113640.	2404987.
SM	32491151360.	12207679488.	3691.	657135232.	1479467776.
AV	43670904.	16408171.	5.	883246.	1988532.

MONTHLY SUMMARY (SEP)

MN	4740642.	9406573.	3.	0.	1202494.
MX	4518700.	10686763.	3.	1113640.	1202494.
SM	19415207936.	6992815616.	2160.	382525568.	865795328.
AV	26965566.	9712244.	3.	531286.	1202494.

MONTHLY SUMMARY (OCT)

MN	3010958.	6832337.	3.	0.	1202494.
MX	44596404.	9797366.	3.	987628.	1202494.
SM	9398846464.	7163420160.	2232.	105327392.	894655168.
AV	12632858.	9628253.	3.	141569.	1202494.

MONTHLY SUMMARY (NOV)

MN	3040506.	3252054.	1.	0.	400831.
MX	30345800.	6504103.	2.	972711.	801662.
SM	10698957824.	3854114560.	1187.	42307932.	475786528.
AV	14859664.	5352937.	2.	58761.	660815.

MONTHLY SUMMARY (DEC)

MN	14270317.	3252053.	1.	0.	400831.
MX	22659844.	6504105.	2.	319752.	801662.
SM	10968299520.	3316909056.	1020.	2767931.	408847840.
AV	14742338.	4458211.	1.	3720.	549527.

YEARLY SUMMARY

MN	3010958.	3252053.	1.	0.	400831.
MX	89214016.	22523626.	6.	1113640.	2404987.
SM	192268976128.	7007962800.	21449.	2513765376.	8597427200.
AV	21948514.	7999965.	2.	286960.	981441.

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	OFF_PWIN	408	4738060.	189522.41	12399.	12399.	0.00	
	INT_WIN	168	1947241.	89573.09	12301.	12301.	0.00	
	ON_PWIN	168	1970367.	104429.47	12301.	12301.	0.00	383524.97
FEB	OFF_PWIN	368	4363478.	174539.13	12346.	12346.	0.00	
	INT_WIN	152	1806989.	81121.52	12333.	12333.	0.00	
	ON_PWIN	152	1829384.	96957.33	12482.	12482.	0.00	354617.97
MAR	OFF_PWIN	376	4470186.	178807.44	12704.	12704.	0.00	
	INT_WIN	184	2212841.	101790.70	12391.	12391.	0.00	
	ON_PWIN	184	2218712.	117591.72	12871.	12871.	0.00	398189.84
APR	OFF_PWIN	400	4593001.	183720.05	12947.	12947.	0.00	
	INT_WIN	160	1849742.	85088.13	12756.	12756.	0.00	
	ON_PWIN	160	1894586.	100413.08	13093.	13093.	0.00	369221.25
MAY	OFF_PWIN	392	4667914.	186716.55	13311.	13311.	0.00	
	INT_WIN	176	2067815.	95119.48	13115.	13115.	0.00	
	ON_PWIN	176	2158285.	114389.09	13149.	13149.	0.00	396225.13
JUN	OFF_PSUM	368	5132145.	174492.92	15416.	15416.	0.00	
	INT_SUM	176	2466925.	115945.48	14999.	14999.	0.00	
	ON_PSUM	176	2506488.	155402.23	15452.	15452.	0.00	445840.63
JUL	OFF_PSUM	424	6247320.	212408.88	19065.	19065.	0.00	
	INT_SUM	160	2842511.	133598.02	19157.	19157.	0.00	
	ON_PSUM	160	2892867.	179357.73	19390.	19390.	0.00	525364.63
AUG	OFF_PSUM	376	5674386.	192929.14	18777.	18777.	0.00	
	INT_SUM	184	3241787.	152363.98	18847.	18847.	0.00	
	ON_PSUM	184	3299390.	204562.16	19248.	19248.	0.00	549855.25
SEP	OFF_PSUM	400	5545825.	188558.05	15136.	15136.	0.00	
	INT_SUM	160	2206416.	103701.57	14779.	14779.	0.00	
	ON_PSUM	160	2247274.	139331.00	15275.	15275.	0.00	431590.63
OCT	OFF_PSUM	408	5468782.	185938.58	14378.	14378.	0.00	
	INT_SUM	168	2252261.	105856.28	13894.	13894.	0.00	
	ON_PSUM	168	2296458.	142380.42	14480.	14480.	0.00	434175.31

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

EDOE - ELITE SOFTWARE DEVELOPMENT INC
 DOE-2.1D 8/ 4/1995 16:16:51 EDL RUN 1

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
NOV	OFF_PWIN	400	4748240.	189929.59	13252.	13252.	0.00	
	INT_WIN	160	1899911.	87395.90	13410.	13410.	0.00	
	ON_PWIN	160	1927578.	102161.66	13402.	13402.	0.00	379487.16
DEC	OFF_PWIN	424	4892250.	195690.02	12532.	12532.	0.00	
	INT_WIN	160	1828325.	84102.95	12367.	12367.	0.00	
	ON_PWIN	160	1863376.	98758.95	12420.	12420.	0.00	378551.91
TOTAL			114269136.	5046645.00			0.00	5046645.00

ENTECH ENGINEERING
READING, PA 19603
REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR
EZDOE - ELITE SOFTWARE DEVELOPMENT INC
DOE-2.1D 8/ 4/1995 15:26:26 SDL RUN 1
DEFAULT-PLANT WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC	
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	2769.21216	9 13	59.F	56.F	12952.115	-32207.732	31 7	6.F	5.F	-93157.844	7278727.	9980.636
FEB	2661.63037	28 16	62.F	56.F	17884.287	-24182.078	3 7	6.F	4.F	-93940.977	6576452.	10071.413
MAR	3774.61108	1 6	65.F	62.F	33899.043	-15713.634	5 4	22.F	19.F	-60370.637	7299177.	10366.349
APR	5889.34814	20 14	78.F	66.F	41744.570	-6264.929	8 8	28.F	26.F	-48358.297	7114297.	10516.551
MAY	12652.85352	28 15	75.F	69.F	55868.117	-1582.772	10 5	35.F	29.F	-33252.438	7472921.	10739.647
JUN	29252.11328	28 17	91.F	77.F	110073.688	-0.731	22 6	52.F	47.F	-489.786	7485145.	11583.874
JUL	41870.07031	25 14	96.F	80.F	121665.469	-0.004	7 5	64.F	63.F	-3.668	7878816.	11556.280
AUG	37630.75391	31 15	90.F	79.F	114928.344	-0.383	22 4	53.F	53.F	-199.495	7830316.	11581.631
SEP	22926.16602	2 12	89.F	77.F	97778.563	-134.863	30 8	46.F	43.F	-10635.139	7400522.	11453.542
OCT	8593.81445	13 16	82.F	66.F	43376.223	-3209.553	28 8	32.F	31.F	-40121.332	7427052.	10744.286
NOV	5770.98682	2 14	82.F	73.F	71327.648	-12064.698	23 7	28.F	25.F	-49229.613	7092279.	10746.001
DEC	2803.12549	29 6	59.F	58.F	18424.271	-25993.842	21 7	15.F	13.F	-74686.180	7279062.	10015.037
TOTAL	176594.406					-121355.063					88132888.	
MAX					121665.469					-93940.977		11583.874

ACT #10
Rebalance
Preheat Coils
Bldg 2

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR BLD_7
 * EDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 15:26:26 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	2.73361	9 13	59.F	56.F	201.818	-395.770	31 7	6.F	5.F	-1242.406	130359.	187.097
FEB	7.79866	28 16	62.F	56.F	357.541	-289.167	3 7	6.F	4.F	-1202.864	118056.	197.260
MAR	39.58744	29 16	74.F	56.F	612.326	-159.189	5 6	23.F	20.F	-772.466	132571.	215.848
APR	123.95550	20 14	78.F	66.F	952.614	-53.155	8 8	28.F	26.F	-617.025	133630.	242.914
MAY	334.37982	21 17	82.F	66.F	1139.992	-10.086	10 7	36.F	30.F	-368.901	151236.	256.948
JUN	650.41040	28 17	91.F	77.F	1822.667	0.000				0.000	169671.	309.113
JUL	848.26263	24 19	89.F	80.F	1847.995	0.000				0.000	187632.	310.022
AUG	787.59137	18 17	91.F	77.F	1796.270	0.000				0.000	183179.	308.919
SEP	534.61896	2 14	92.F	76.F	1620.156	-0.032	30 8	46.F	43.F	-23.277	161078.	299.366
OCT	224.13701	13 16	82.F	66.F	1015.712	-20.454	28 8	32.F	31.F	-444.073	144207.	247.837
NOV	78.69498	2 14	82.F	73.F	1315.856	-124.683	23 7	28.F	25.F	-620.654	130932.	268.445
DEC	3.34359	29 7	59.F	58.F	217.307	-317.204	22 7	16.F	14.F	-956.661	130399.	188.259
TOTAL	3635.517					-1369.740					1772953.	
MAX					1847.995					-1242.406		310.022

ENTECH ENGINEERING
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 GENERAL
EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 8/ 4/1995 15:26:26 SDL RUN 1
WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	384.42691	8 22	59.F	52.F	1560.025	-4981.119	31 7	6.F	5.F	-13699.482	489879.	658.443
FEB	361.94824	28 16	62.F	56.F	2374.213	-3808.562	3 7	6.F	4.F	-13892.849	442471.	658.443
MAR	533.79242	29 15	75.F	57.F	5808.886	-2610.768	5 4	22.F	19.F	-9144.771	489879.	658.443
APR	871.01312	19 12	77.F	62.F	6383.616	-1142.084	8 8	28.F	26.F	-7415.490	474076.	658.443
MAY	1990.07837	28 14	74.F	69.F	10832.337	-319.178	10 5	35.F	29.F	-5359.031	489879.	658.443
JUN	3876.42432	28 17	91.F	77.F	17564.289	-0.438	22 6	52.F	47.F	-317.124	474076.	658.443
JUL	5259.23486	25 14	96.F	80.F	19649.408	-0.004	7 5	64.F	63.F	-3.668	489879.	658.443
AUG	4778.25879	31 15	90.F	79.F	18125.967	-0.335	22 4	53.F	53.F	-175.319	489879.	658.443
SEP	2993.47119	2 14	92.F	76.F	14816.945	-40.152	30 8	46.F	43.F	-2191.392	474076.	658.443
OCT	1403.53333	8 13	75.F	64.F	8736.681	-616.435	28 8	32.F	31.F	-6301.522	489879.	658.443
NOV	791.69543	1 12	75.F	72.F	13422.507	-2042.341	23 7	28.F	25.F	-7548.288	474076.	658.443
DEC	394.64340	29 6	59.F	58.F	2519.949	-4097.769	21 7	15.F	13.F	-11146.239	489879.	658.443
TOTAL	23638.773					-19659.150					5768362.	
MAX					19649.408					-13892.849		658.443

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 49_DEARGU
 E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/ 4/1995 15:26:26 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	-2546.988	31	7	6.F	5.F	413270.	650.169
FEB	10.40430	28 17	60.F	55.F	952.441	-1915.117	3	7	6.F	4.F	373905.	707.926
MAR	93.03175	29 16	74.F	56.F	2501.630	-1208.355	5	7	24.F	20.F	419039.	815.959
APR	371.69562	19 17	83.F	63.F	4110.848	-518.460	8	8	28.F	26.F	423642.	949.456
MAY	1185.00354	21 17	82.F	66.F	5089.093	-118.999	10	7	36.F	30.F	490360.	1016.820
JUN	2518.70801	10 18	92.F	77.F	7608.369	0.000				0.000	573121.	1239.137
JUL	3310.42651	25 18	91.F	79.F	8160.751	0.000				0.000	641112.	1274.871
AUG	3025.57031	18 17	93.F	77.F	7642.015	0.000				0.000	621024.	1246.897
SEP	1972.80957	1 18	89.F	72.F	6958.067	-9.693	30	8	46.F	43.F	532021.	1210.900
OCT	694.62097	13 17	78.F	66.F	4287.255	-267.236	28	8	32.F	31.F	458379.	943.994
NOV	217.91878	2 15	81.F	72.F	5033.097	-1067.310	23	7	28.F	25.F	414180.	982.588
DEC	0.00000				0.000	-2197.096	22	7	16.F	14.F	413270.	650.169
TOTAL	13400.206					-9849.252					5773213.	
MAX					8160.751					-7012.576		1274.871

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	ELSC LOAD (KW)	MAXIMUM
JAN	33.93944	9 13	59.F	56.F	1900.002	-3644.374	17 19	6.F	4.F	-10883.411	929378.	1360.231	
FEB	49.84756	28 16	62.F	56.F	2444.933	-2727.859	3 6	6.F	4.F	-10846.154	840621.	1398.740	
MAR	235.70625	29 14	75.F	57.F	5053.963	-1754.915	5 4	22.F	19.F	-6943.017	941856.	1561.028	
APR	659.23621	19 14	83.F	64.F	7287.734	-675.773	8 8	28.F	26.F	-5420.951	938592.	1775.343	
MAY	1536.33984	19 13	77.F	68.F	8367.409	-172.234	11 2	35.F	30.F	-3759.638	1025622.	1811.050	
JUN	3325.58276	28 17	91.F	77.F	14407.431	0.000				0.000	1123927.	2244.603	
JUL	4648.01465	9 18	91.F	77.F	13619.016	0.000				0.000	1244364.	2207.408	
AUG	4300.96143	18 17	93.F	77.F	13614.819	0.000				0.000	1220410.	2222.444	
SEP	2898.02759	2 14	92.F	76.F	12181.978	-13.968	30 8	46.F	43.F	-1150.482	1088996.	2143.444	
OCT	1446.15845	13 14	82.F	67.F	8408.471	-347.408	28 8	32.F	31.F	-4528.100	1018756.	1845.173	
NOV	497.43384	2 11	78.F	72.F	10760.764	-1295.320	23 7	28.F	25.F	-5540.527	928728.	1963.790	
DEC	37.99460	28 14	62.F	57.F	2553.901	-2872.135	21 7	15.F	13.F	-8714.624	929673.	1405.524	
TOTAL	19669.221					-13504.005					12231591.		
MAX					14407.431					-10883.411		2244.603	

ENTECH ENGINEERING
READING, PA 19603
E2DOE - ELITE SOFTWARE DEVELOPMENT INC
DOE-2.1D 8/ 4/1995 15:26:26 SDL RUN 1
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 HEATON WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC-			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	1737.82068	9 13	59.F	56.F	9010.135	-16496.758	31 7	6.F	5.F	-48653.531	4319428.	5805.631
FEB	1660.10791	28 16	62.F	56.F	12350.511	-12296.108	3 7	6.F	4.F	-49528.344	3901419.	5805.631
MAR	2326.37622	1 6	65.F	62.F	23079.277	-7871.819	5 4	22.F	19.F	-31291.887	4319428.	5805.631
APR	3679.51245	20 14	78.F	66.F	31489.102	-2979.261	8 8	28.F	26.F	-24736.174	4180095.	5805.631
MAY	8465.31445	28 17	78.F	69.F	40371.414	-718.230	10 5	35.F	29.F	-16876.170	4319428.	5805.631
JUN	20722.38477	30 16	86.F	78.F	74764.172	0.000				0.000	4180095.	5805.631
JUL	29866.14258	24 20	87.F	80.F	82739.453	0.000				0.000	4319428.	5805.631
AUG	26830.57031	31 14	89.F	79.F	78237.719	0.000				0.000	4319428.	5805.631
SEP	16105.08398	2 12	89.F	77.F	67770.242	-42.901	30 8	46.F	43.F	-4544.451	4180095.	5805.631
OCT	5411.63672	13 14	82.F	67.F	32755.074	-1485.878	28 8	32.F	31.F	-20597.146	4319428.	5805.631
NOV	3852.85449	2 14	82.F	73.F	52721.465	-5908.329	23 7	28.F	25.F	-25288.709	4180095.	5805.631
DEC	1762.32727	29 6	59.F	58.F	12671.130	-13138.281	21 7	15.F	13.F	-38986.820	4319428.	5805.631
TOTAL	122420.313					-60937.461					50854012.	
MAX					82739.453					-49528.344		5805.631

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 ADMIN DOB-2.1.D 8/ 4/1995 15:26:26 S.D.L RUN 1
 E2DOE - ELITE SOFTWARE DEVELOPMENT INC WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	281.10031	9 13	59.F	56.F	779.105	-0.633	31 7	6.F	5.F	-65.016	227888.	306.303
FEB	292.42172	28 16	62.F	56.F	843.858	-0.126	3 7	6.F	4.F	-36.344	205835.	306.303
MAR	408.53656	29 15	75.F	57.F	1086.225	0.000				0.000	227888.	306.303
APR	479.21790	19 16	83.F	63.F	1293.752	0.000				0.000	220537.	306.303
MAY	662.79010	21 17	82.F	66.F	1412.813	0.000				0.000	227888.	306.303
JUN	863.52612	30 16	86.F	78.F	1888.489	0.000				0.000	220537.	306.303
JUL	1004.94971	25 14	96.F	80.F	1952.547	0.000				0.000	227888.	306.303
AUG	963.56244	31 15	90.F	79.F	1925.568	0.000				0.000	227888.	306.303
SEP	775.51825	2 14	92.F	76.F	1783.525	0.000				0.000	220537.	306.303
OCT	566.55206	13 14	82.F	67.F	1299.625	0.000				0.000	227888.	306.303
NOV	394.64178	2 14	82.F	73.F	1496.991	0.000				0.000	220537.	306.303
DEC	272.36353	29 7	59.F	58.F	815.924	0.000				0.000	227888.	306.303
TOTAL	6965.189					-0.759					2682954.	
MAX					1952.547					-65.016		306.303

ENTTECH ENGINEERING
READING, PA 19603
EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/ 4/1995 15:26:26 SDL RUN 1
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 WEAIR WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	WET- BULB TEMP	MAXIMUM LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	WET- BULB TEMP	MAXIMUM LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)		
JAN	300.06345	8 22	59.F 52.F	1355.893	-3732.795	17 19	6.F 4.F	-10409.997	668532.	898.569		
FEB	283.12122	28 16	62.F 56.F	1956.609	-2844.543	3 7	6.F 4.F	-10575.047	603835.	898.569		
MAR	405.48590	29 13	74.F 56.F	4390.291	-1935.704	5 4	22.F 19.F	-6913.101	668532.	898.569		
APR	684.60468	20 14	78.F 66.F	4994.374	-828.416	8 8	28.F 26.F	-5575.413	646966.	898.569		
MAY	1245.10010	26 17	79.F 68.F	6542.403	-236.595	11 2	35.F 30.F	-4019.902	668532.	898.569		
JUN	3249.03516	30 17	86.F 78.F	14155.073	-0.136	22 6	52.F 47.F	-136.134	646966.	898.569		
JUL	5023.97852	24 19	89.F 80.F	15949.351	0.000			0.000	668532.	898.569		
AUG	4420.36426	31 15	90.F 79.F	15032.445	0.000			0.000	668532.	898.569		
SEP	2595.42871	2 14	92.F 76.F	12425.924	-25.472	30 8	46.F 43.F	-1536.601	646966.	898.569		
OCT	963.98743	30 15	70.F 65.F	7259.854	-439.287	28 8	32.F 31.F	-4741.610	668532.	898.569		
NOV	598.71814	2 14	82.F 73.F	9148.170	-1495.731	23 7	28.F 25.F	-5674.818	646966.	898.569		
DEC	307.34085	29 6	59.F 58.F	2083.525	-3048.474	21 7	15.F 13.F	-8452.755	668532.	898.569		
TOTAL	20077.332				-14577.173				7871080.			
MAX				15949.351				-10575.047		898.569		

ENTECH ENGINEERING
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR
EZOOR - ELITE SOFTWARE DEVELOPMENT INC
DOB-2.1D 8/ 4/1995 15:26:26 SDL RUN 1
48 FITNESS WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC-		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	51.39704	9 13	59.F	56.F	208.701	-190.090	31 7	6.F	5.F	-649.285	72266.	97.131	
FEB	50.49187	28 16	62.F	56.F	268.939	-131.617	3 7	6.F	4.F	-588.718	65273.	97.131	
MAR	82.14308	29 16	74.F	56.F	416.673	-53.386	5 6	23.F	20.F	-353.791	72266.	97.131	
APR	146.30630	20 14	78.F	66.F	628.419	-12.698	9 8	29.F	24.F	-261.897	69935.	97.131	
MAY	233.67871	21 17	82.F	66.F	689.682	-0.715	10 7	36.F	30.F	-69.737	72266.	97.131	
JUN	373.42697	28 17	91.F	77.F	1136.559	0.000				0.000	69935.	97.131	
JUL	470.28455	25 18	91.F	79.F	1235.046	0.000				0.000	72266.	97.131	
AUG	422.97275	31 16	90.F	78.F	1125.594	0.000				0.000	72266.	97.131	
SEP	333.34177	1 18	89.F	72.F	1019.436	0.000				0.000	69935.	97.131	
OCT	206.03949	13 17	78.F	66.F	625.798	-1.953	28 8	32.F	31.F	-128.504	72266.	97.131	
NOV	104.83438	2 14	82.F	73.F	813.931	-37.341	23 7	28.F	25.F	-261.136	69935.	97.131	
DEC	51.58225	29 6	59.F	58.F	234.354	-141.644	22 7	16.F	14.F	-481.764	72266.	97.131	
TOTAL	2526.488					-569.443					850825.		
MAX					1235.046					-649.285		97.131	

ENTECH ENGINEERING 19603 EDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/ 4/1995 15:26:26 SDL RUN 1
 READING, PA
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 MEI WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	14.40490	8 22	59.F	52.F	60.567	-219.188	17 19	6.F	4.F	-595.930	27746.	37.293
FEB	13.53719	28 16	62.F	56.F	90.158	-168.980	3 7	6.F	4.F	-603.942	25061.	37.293
MAR	18.27430	1 6	65.F	62.F	210.989	-119.506	5 4	22.F	19.F	-401.397	27746.	37.293
APR	28.69227	20 14	78.F	66.F	249.995	-55.078	8 7	28.F	27.F	-327.398	26851.	37.293
MAY	55.89507	26 17	79.F	68.F	331.887	-16.736	11 2	35.F	30.F	-245.715	27746.	37.293
JUN	167.32713	30 17	86.F	78.F	750.162	-0.157	22 6	52.F	47.F	-36.528	26851.	37.293
JUL	245.47079	25 14	96.F	80.F	834.074	0.000				0.000	27746.	37.293
AUG	215.03352	31 15	90.F	79.F	790.626	-0.048	22 4	53.F	53.F	-24.176	27746.	37.293
SEP	123.32504	2 14	92.F	76.F	644.582	-2.645	30 8	46.F	43.F	-109.849	26851.	37.293
OCT	42.06193	2 17	67.F	64.F	277.590	-30.903	28 8	32.F	31.F	-283.595	27746.	37.293
NOV	28.22661	2 14	82.F	73.F	465.376	-93.642	9 7	28.F	26.F	-332.863	26851.	37.293
DEC	14.86966	29 6	59.F	58.F	100.613	-181.246	21 7	15.F	13.F	-486.553	27746.	37.293
TOTAL	967.163					-888.131					326673.	
MAX					834.074					-603.942		37.293

MDDHH	OPEN-CEN		OPEN-CEN		OPEN-CEN		OPEN-CEN		CERAMIC-		CERAMIC-	
	T-CHLR	LOAD	T-CHLR	ELECTRIC	T-CHLR	SIZES	T-CHLR	PUMP	TWR	FAN	ELEC	BTU/HR
	BTU/HR			USE		RUNNING						
--- (1) --- (3) --- (6) --- (20) --- (21)												
MONTHLY SUMMARY (JAN)												
MN	4621191.		3251939.		1.		0.		400831.			
MX	14681218.		3255372.		1.		0.		400831.			
SM	4055664895.		2428602624.		744.		0.		298218368.			
AV	5451163.		3264251.		1.		0.		400831.			
MONTHLY SUMMARY (FEB)												
MN	3641630.		3252040.		1.		0.		400831.			
MX	19613390.		6502883.		2.		302338.		801662.			
SM	3823887584.		2238844160.		686.		603744.		274970208.			
AV	5689663.		3331613.		1.		898.		409182.			
MONTHLY SUMMARY (MAR)												
MN	3806349.		3252076.		1.		0.		400831.			
MX	29561854.		6503716.		2.		439236.		801662.			
SM	5061063168.		2553842688.		783.		6085727.		313850752.			
AV	6802505.		3432584.		1.		8180.		421842.			
MONTHLY SUMMARY (APR)												
MN	4650997.		3251963.		1.		0.		400831.			
MX	30026140.		6503822.		2.		639007.		801662.			
SM	7072227840.		2801679872.		861.		31707500.		345115584.			
AV	9822539.		3891222.		1.		44038.		479327.			
MONTHLY SUMMARY (MAY)												
MN	4168069.		3251937.		1.		0.		400831.			
MX	30345800.		6503256.		2.		863296.		801662.			
SM	12837441536.		3639907584.		1128.		150433312.		452137568.			
AV	17254626.		4892349.		2.		202195.		607712.			
MONTHLY SUMMARY (JUN)												
MN	4915886.		9406573.		3.		0.		1202494.			
MX	45518700.		10321234.		3.		1113640.		1202494.			
SM	24193839104.		6976032256.		2160.		498478944.		865795328.			
AV	33602556.		9688934.		3.		692332.		1202494.			
MONTHLY SUMMARY (JUL)												
MN	6001770.		3252103.		1.		0.		400831.			
MX	89498208.		22523626.		6.		1113640.		2404987.			
SM	35352375296.		11391942656.		3400.		662081344.		1362826112.			
AV	47516632.		15311751.		5.		869894.		1831756.			

OPEN-CEN T-CHLR LOAD	OPEN-CEN T-CHLR ELECTRIC USE	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
----(1)	----(3)	----(6)	----(20)	----(21)
MONTHLY SUMMARY (AUG)				
MN 5296399.	3253136.	1.	0.	400831.
MX 89214016.	2282284.	6.	1113640.	2404987.
SM 33936842732.	12222137344.	3693.	662747712.	1480289440.
AV 45614036.	16427604.	5.	890790.	1989610.
MONTHLY SUMMARY (SEP)				
MN 4214211.	9406573.	3.	0.	1202494.
MX 45518700.	10663575.	3.	1113640.	1202494.
SM 20147040256.	6987008512.	2160.	393803296.	865795328.
AV 27982000.	9704178.	3.	546949.	1202494.
MONTHLY SUMMARY (OCT)				
MN 4098615.	9296117.	3.	0.	1202494.
MX 44474672.	9797319.	3.	980832.	1202494.
SM 9880268800.	7262317568.	2232.	110542344.	894655168.
AV 13279931.	9761180.	3.	148578.	1202494.
MONTHLY SUMMARY (NOV)				
MN 5031878.	3251966.	1.	0.	400831.
MX 30345800.	6503834.	2.	972711.	801662.
SM 6139233328.	2688098816.	827.	44690376.	331487296.
AV 8526716.	3733471.	1.	62070.	460399.
MONTHLY SUMMARY (DEC)				
MN 4079346.	3252316.	1.	0.	400831.
MX 20153374.	6501067.	2.	309373.	801662.
SM 4089578240.	2467534592.	756.	1515473.	303028352.
AV 5496745.	3316579.	1.	2037.	407296.
YEARLY SUMMARY				
MN 3641630.	3251937.	1.	0.	400831.
MX 89214016.	22523626.	6.	1113640.	2404987.
SM 166589169664.	63657947136.	19430.	2562689792.	7788149248.
AV 19017028.	7266889.	2.	292345.	889058.

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 8/ 4/1995

15:26:26 EDL RUN 1

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	OFF_PWIN	408	4557657.	182306.27	11337.	11337.	0.00	367053.38
	INT_WIN	168	1868646.	85957.73	11235.	11235.	0.00	
	ON_PWIN	168	1863951.	98789.39	11235.	11235.	0.00	
FEB	OFF_PWIN	368	4110154.	164406.16	11285.	11285.	0.00	332490.78
	INT_WIN	152	1693102.	77882.69	12238.	12238.	0.00	
	ON_PWIN	152	1701923.	90201.94	12496.	12496.	0.00	
MAR	OFF_PWIN	376	4221941.	168877.66	12724.	12724.	0.00	373431.47
	INT_WIN	184	2061929.	94848.75	12679.	12679.	0.00	
	ON_PWIN	184	2069907.	109705.07	12879.	12879.	0.00	
APR	OFF_PWIN	400	4545211.	181808.44	12927.	12927.	0.00	365487.66
	INT_WIN	160	1820789.	83756.30	12749.	12749.	0.00	
	ON_PWIN	160	1885338.	99922.91	13079.	13079.	0.00	
MAY	OFF_PWIN	392	4683423.	187336.91	13286.	13286.	0.00	397787.19
	INT_WIN	176	2077895.	95583.18	13063.	13063.	0.00	
	ON_PWIN	176	2167304.	114867.09	13126.	13126.	0.00	
JUN	OFF_PSUM	368	5148173.	175037.88	15461.	15461.	0.00	447129.25
	INT_SUM	176	2471707.	116170.24	15159.	15159.	0.00	
	ON_PSUM	176	2514857.	155921.14	15433.	15433.	0.00	
JUL	OFF_PSUM	424	6273345.	213293.72	19079.	19079.	0.00	527044.13
	INT_SUM	160	2847500.	133832.48	19326.	19326.	0.00	
	ON_PSUM	160	2901902.	179917.94	19384.	19384.	0.00	
AUG	OFF_PSUM	376	5695496.	191646.86	18895.	18895.	0.00	551451.13
	INT_SUM	184	3246948.	152606.55	18975.	18975.	0.00	
	ON_PSUM	184	3309640.	205197.69	19231.	19231.	0.00	
SEP	OFF_PSUM	400	5559056.	189007.89	15098.	15098.	0.00	432600.13
	INT_SUM	160	2209935.	103866.96	14917.	14917.	0.00	
	ON_PSUM	160	2253634.	139725.28	15253.	15253.	0.00	
OCT	OFF_PSUM	408	5499896.	186996.47	14340.	14340.	0.00	435924.13
	INT_SUM	168	2261733.	106301.43	13979.	13979.	0.00	
	ON_PSUM	168	2300423.	142626.23	14466.	14466.	0.00	

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
NOV	OFF_PWIN	400	4535911.	181436.44	13145.	13145.	0.00	
	INT_WIN	160	1821535.	83790.60	13352.	13352.	0.00	
	ON_PWIN	160	1838401.	97435.24	13363.	13363.	0.00	362662.28
DEC	OFF_PWIN	424	4741488.	189659.53	12528.	12528.	0.00	
	INT_WIN	160	1780764.	81915.16	12197.	12197.	0.00	
	ON_PWIN	160	1781592.	94424.36	12426.	12426.	0.00	365999.06
TOTAL			112323208.	4959060.50			0.00	4959060.50

ENTECH ENGINEERING 19603
READING, PA
REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR
EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 14:51:11 SDL RUN 1
DEFAULT-PLANT WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	9613.13086	9 13	59.F	56.F	15251.186	-40744.055	31 7	6.F	5.F	-104451.000	6568256.	9004.412
FEB	8777.30371	28 16	62.F	56.F	17192.854	-31872.002	3 7	6.F	4.F	-105477.664	5934229.	9083.588
MAR	9735.27734	1 6	65.F	62.F	33180.590	-23414.174	5 4	22.F	19.F	-71963.398	6584704.	9381.594
APR	9833.24512	20 14	78.F	66.F	38849.887	-11844.405	8 8	28.F	26.F	-60041.801	6416032.	9523.635
MAY	12608.34961	28 15	75.F	69.F	52250.500	-3735.315	10 5	35.F	29.F	-44415.762	6743509.	9732.266
JUN	27501.61719	30 17	86.F	78.F	107616.672	-104.744	22 6	52.F	47.F	-8449.741	6766968.	10570.350
JUL	39283.68750	25 14	96.F	80.F	119588.219	-12.671	21 5	56.F	54.F	-3191.806	7129982.	10543.486
AUG	35322.00781	31 15	90.F	79.F	113259.875	-42.976	22 4	53.F	53.F	-6923.593	7081547.	10566.469
SEP	21333.81250	2 14	92.F	76.F	94056.664	-741.860	30 8	46.F	43.F	-21592.180	6683538.	10443.975
OCT	10556.63281	13 16	82.F	66.F	42535.754	-6998.219	28 8	32.F	31.F	-52171.109	6698499.	9746.471
NOV	11004.69824	2 14	82.F	73.F	66026.844	-19062.506	23 7	28.F	25.F	-61082.551	6399270.	9745.348
DEC	9636.00391	29 6	59.F	58.F	20647.355	-34582.574	21 7	15.F	13.F	-86143.844	6568651.	9030.119
TOTAL	205205.672					-173155.797					79575520.	
MAX					119588.219					-105477.664		10570.350

ACT #11
Efficient
Lighting

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.63761	9 13	59.F	56.F	104.715	-453.922	31 7	6.F	5.F	-1324.938	112550.	157.506	
FEB	3.74440	28 16	62.F	56.F	270.902	-339.400	3 7	6.F	4.F	-1285.343	101849.	168.093	
MAR	23.78544	29 16	74.F	56.F	531.717	-203.253	5 6	23.F	20.F	-853.336	113981.	187.237	
APR	90.26086	20 14	78.F	66.F	862.025	-77.553	8 8	28.F	26.F	-697.860	114567.	212.897	
MAY	278.16791	21 17	82.F	66.F	1053.419	-16.290	10 7	36.F	30.F	-450.762	130275.	226.880	
JUN	585.51459	28 17	91.F	77.F	1734.886	0.000				0.000	148484.	278.466	
JUL	779.36328	24 19	89.F	80.F	1756.852	0.000				0.000	165372.	279.016	
AUG	718.15094	18 17	93.F	77.F	1706.864	0.000				0.000	160993.	278.320	
SEP	472.01163	2 14	92.F	76.F	1529.352	-0.508	30 8	46.F	43.F	-109.612	140077.	268.900	
OCT	175.59120	13 16	82.F	66.F	926.349	-34.519	28 8	32.F	31.F	-525.734	123710.	217.547	
NOV	62.03271	2 14	82.F	73.F	1218.196	-167.097	23 7	28.F	25.F	-701.269	112823.	237.612	
DEC	1.20537	28 16	62.F	57.F	121.217	-375.419	22 7	16.F	14.F	-1038.139	112585.	158.786	
TOTAL	3190.462					-1668.062				-1324.938	1537300.		279.016
MAX					1756.852								

ENTECH ENGINEERING
READING, PA 19603
EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 14:51:11 SDL RUN 1
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 GENERAL WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC-			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	366.57819	8 22	59.F	52.F	1486.780	-4990.230	31 7	6.F	5.F	-13634.447	424086.	570.010
FEB	344.95374	28 16	62.F	56.F	2259.530	-3826.281	3 7	6.F	4.F	-13848.404	383046.	570.010
MAR	507.44604	29 15	75.F	57.F	5666.025	-2649.620	5 4	22.F	19.F	-9146.646	424086.	570.010
APR	829.66132	19 12	77.F	62.F	6229.021	-1179.443	8 8	28.F	26.F	-7432.197	410406.	570.010
MAY	1965.63037	28 14	74.F	69.F	10677.272	-338.652	10 5	35.F	29.F	-5424.757	424086.	570.010
JUN	3751.32520	28 17	91.F	77.F	17196.959	-1.233	22 6	52.F	47.F	-476.005	410406.	570.010
JUL	4992.02588	25 17	94.F	79.F	19291.533	0.000				0.000	424086.	570.010
AUG	4704.16016	31 15	90.F	79.F	17704.188	-0.584	22 4	53.F	53.F	-297.905	424086.	570.010
SEP	2890.95068	2 14	92.F	76.F	14418.330	-46.244	30 8	46.F	43.F	-2295.173	410406.	570.010
OCT	1417.23206	30 15	70.F	65.F	7351.011	-644.832	28 8	32.F	31.F	-6352.423	424086.	570.010
NOV	799.33447	2 10	76.F	72.F	13221.605	-2075.696	23 7	28.F	25.F	-7563.270	410406.	570.010
DEC	376.95667	29 6	59.F	58.F	2434.204	-4114.051	21 7	15.F	13.F	-11127.244	424086.	570.010
TOTAL	22945.918					-19866.902					4993206.	
MAX					19291.533					-13848.404		570.010

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 49 DRABGU
 EDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 14:51:11 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	-2675.727	31	7	6.F	5.F	390083.	619.007
FEB	7.82057	28 17	60.F	55.F	810.331	-2025.801	3	7	6.F	4.F	352808.	668.146
MAR	78.81355	29 16	74.F	56.F	2389.060	-1313.365	5	7	24.F	20.F	395018.	778.681
APR	328.14706	19 17	83.F	63.F	4003.201	-585.451	8	8	28.F	26.F	398608.	910.382
MAY	1097.99841	21 17	82.F	66.F	4979.660	-142.455	10	7	36.F	30.F	461971.	977.645
JUN	2413.17529	10 18	92.F	77.F	7497.133	0.000				0.000	543925.	1199.386
JUL	3201.46289	25 18	91.F	79.F	8049.139	0.000				0.000	610815.	1235.089
AUG	2914.23682	18 17	93.F	77.F	7529.449	0.000				0.000	590747.	1207.031
SEP	1871.75684	1 18	89.F	72.F	6855.967	-14.374	30	8	46.F	43.F	503318.	1171.664
OCT	627.15131	13 17	78.F	66.F	4170.123	-314.781	28	8	32.F	31.F	431120.	905.047
NOV	197.18172	2 15	81.F	72.F	4893.536	-1164.475	23	7	28.F	25.F	390510.	942.705
DEC	0.00000				0.000	-2323.983	22	7	16.F	14.F	390083.	619.007
TOTAL	12737.737					-10560.420					5458865.	
MAX					8049.139					-7217.497		1235.089

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 54_AFI5P
 EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 14:51:11 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	23.83951	9 13	59.F	56.F	1537.219	-3869.496	17 19	6.F	4.F	-11374.993	805143.	1172.315
FEB	36.76395	28 16	62.F	56.F	2109.676	-2926.968	3 6	6.F	4.F	-11330.797	728172.	1211.662
MAR	184.43434	29 14	75.F	57.F	4735.249	-1945.941	5 4	22.F	19.F	-7281.034	815223.	1394.048
APR	542.47528	19 14	83.F	64.F	6959.367	-804.592	8 8	28.F	26.F	-5764.002	812057.	1584.673
MAY	1353.35986	19 13	77.F	68.F	7893.520	-219.157	11 2	35.F	30.F	-4119.084	890774.	1614.586
JUN	3013.28760	28 17	91.F	77.F	13819.104	-0.081	22 6	52.F	47.F	-80.762	983757.	2036.875
JUL	4239.85596	9 18	91.F	77.F	13062.989	0.000				0.000	1093303.	1997.405
AUG	3884.88843	18 17	93.F	77.F	13036.944	0.000				0.000	1069319.	2013.748
SEP	2578.72900	2 14	92.F	76.F	11747.731	-24.094	30 8	46.F	43.F	-1508.027	949343.	1939.881
OCT	1246.08215	13 14	82.F	67.F	8008.031	-426.353	28 8	32.F	31.F	-4876.769	883177.	1649.348
NOV	433.05588	2 11	78.F	72.F	10264.684	-1471.369	9 7	28.F	26.F	-5874.432	805143.	1762.711
DEC	29.18485	28 14	62.F	57.F	2230.756	-3096.206	21 7	15.F	13.F	-9066.163	805502.	1219.201
TOTAL	17565.973					-14784.268					10640468.	
MAX					13819.104					-11374.993		2036.875

ENTECH ENGINEERING
READING, PA 19603
EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 14:51:11 SDL RUN 1
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 HEATON WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					MAXIMUM COOLING LOAD (KBTU/HR)	HEATING					MAXIMUM HEATING LOAD (KBTU/HR)	ELB- TRICAL ENERGY (KWH)	MAXIMUM BLEC LOAD (KW)
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	HEATING ENERGY (MBTU)		TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP					
JAN	8627.30176	15 5	13.F	11.F	11693.745	-24515.072	31 7	6.F	5.F	-59179.094	3934505.	5288.347		
FEB	7819.69678	28 15	62.F	55.F	12005.558	-19512.869	3 7	6.F	4.F	-60260.598	3553751.	5288.347		
MAR	8339.14453	1 6	65.F	62.F	22738.422	-15079.275	5 4	22.F	19.F	-42147.070	3934505.	5288.347		
APR	7734.30322	20 14	78.F	66.F	29738.766	-8209.582	8 8	28.F	26.F	-35645.617	3807587.	5288.347		
MAY	8584.96777	28 17	78.F	69.F	37799.309	-2732.608	11 2	35.F	30.F	-27790.234	3934505.	5288.347		
JUN	19209.87109	30 17	86.F	78.F	73686.609	-101.885	22 6	52.F	47.F	-7405.485	3807587.	5288.347		
JUL	27985.67188	25 14	96.F	80.F	80938.117	-12.671	21 5	56.F	54.F	-3191.806	3934505.	5288.347		
AUG	24983.47852	31 15	90.F	79.F	77241.070	-41.827	22 4	53.F	53.F	-6340.911	3934505.	5288.347		
SEP	14865.99219	2 12	89.F	77.F	64857.664	-616.157	30 8	46.F	43.F	-14521.438	3807587.	5288.347		
OCT	7421.09717	13 14	82.F	67.F	33652.914	-5039.635	28 8	32.F	31.F	-31806.393	3934505.	5288.347		
NOV	9126.42578	2 14	82.F	73.F	49818.195	-12454.127	23 7	28.F	25.F	-36386.422	3807587.	5288.347		
DEC	8639.98730	29 6	59.F	58.F	15177.600	-21196.879	21 7	15.F	13.F	-49728.605	3934505.	5288.347		
TOTAL	153337.109					-109512.570					46323524.			
MAX					80938.117					-60260.598		5288.347		

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR
 EZDOB - ELITE SOFTWARE DEVELOPMENT INC
 DOB-2.1D 8/4/1995 14:51:11 SDL RUN 1
 48 ADMIN WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					MAXIMUM COOLING LOAD (KBTU/HR)	HEATING					MAXIMUM HEATING LOAD (KBTU/HR)	ELEC	
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	HEATING ENERGY (MBTU)		TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)			
JAN	281.10031	9 13	59.F	56.F	779.105	-0.633	31 7	6.F	5.F	-65.016	227888.	306.303		
FEB	292.42172	28 16	62.F	56.F	843.858	-0.126	3 7	6.F	4.F	-36.344	205835.	306.303		
MAR	408.53656	29 15	75.F	57.F	1086.225	0.000				0.000	227888.	306.303		
APR	479.21790	19 16	83.F	63.F	1293.752	0.000				0.000	220537.	306.303		
MAY	662.79010	21 17	82.F	66.F	1412.813	0.000				0.000	227888.	306.303		
JUN	863.52612	30 16	86.F	78.F	1888.489	0.000				0.000	220537.	306.303		
JUL	1004.94971	25 14	96.F	80.F	1952.547	0.000				0.000	227888.	306.303		
AUG	963.56244	31 15	90.F	79.F	1925.568	0.000				0.000	227888.	306.303		
SEP	775.51825	2 14	92.F	76.F	1783.525	0.000				0.000	220537.	306.303		
OCT	566.55206	13 14	82.F	67.F	1299.625	0.000				0.000	227888.	306.303		
NOV	394.64178	2 14	82.F	73.F	1496.991	0.000				0.000	220537.	306.303		
DEC	272.36353	29 7	59.F	58.F	815.924	0.000				0.000	227888.	306.303		
TOTAL	6965.189					-0.759					2682954.			
MAX					1952.547					-65.016		306.303		

ENTECH ENGINEERING
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48_WRAIR
EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 8/ 4/1995 14:51:11 SDL RUN 1
WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	272.36038	8 22	59.F	52.F	1175.775	-3829.686	17 19	6.F	4.F	-10504.837	573976.	771.474	
FEB	256.20468	28 16	62.F	56.F	1728.123	-2939.957	3 7	6.F	4.F	-10655.301	518428.	771.474	
MAR	379.73642	29 14	75.F	57.F	4363.893	-2049.839	5 4	22.F	19.F	-7039.197	573976.	771.474	
APR	615.06641	20 14	78.F	66.F	4440.757	-919.813	8 8	28.F	26.F	-5717.592	555460.	771.474	
MAY	1105.38452	26 17	79.F	68.F	5956.420	-268.703	11 2	35.F	30.F	-4226.961	573976.	771.474	
JUN	3136.14038	30 17	86.F	78.F	13590.089	-1.388	22 6	52.F	47.F	-450.962	555460.	771.474	
JUL	4585.28662	25 14	96.F	80.F	15427.973	0.000				0.000	573976.	771.474	
AUG	4032.81763	31 15	90.F	79.F	14476.953	-0.516	22 4	53.F	53.F	-260.601	573976.	771.474	
SEP	2344.69238	2 14	92.F	76.F	11881.088	-37.838	30 8	46.F	43.F	-1793.592	555460.	771.474	
OCT	903.64618	30 15	70.F	65.F	5678.234	-505.242	28 8	32.F	31.F	-4918.166	573976.	771.474	
NOV	551.23499	1 9	71.F	70.F	9023.315	-1598.771	23 7	28.F	25.F	-5815.814	555460.	771.474	
DEC	280.25504	29 6	59.F	58.F	1885.883	-3153.145	21 7	15.F	13.F	-8559.507	573976.	771.474	
TOTAL	18461.633					-15304.933					6758320.		
MAX					15427.973					-10655.301		771.474	

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 FITNESS
 E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 14:51:11 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	51.39704	9 13	59.F	56.F	208.701	-190.090	31 7	6.F	5.F	-649.285	72266.	97.131	
FEB	50.49187	28 16	62.F	56.F	268.939	-131.617	3 7	6.F	4.F	-588.718	65273.	97.131	
MAR	82.14308	29 16	74.F	56.F	416.673	-53.386	5 6	23.F	20.F	-353.791	72266.	97.131	
APR	146.30630	20 14	78.F	66.F	628.419	-12.698	9 8	29.F	24.F	-261.897	69935.	97.131	
MAY	233.67871	21 17	82.F	66.F	689.682	-0.715	10 7	36.F	30.F	-69.737	72266.	97.131	
JUN	373.42697	28 17	91.F	77.F	1136.559	0.000				0.000	69935.	97.131	
JUL	470.28455	25 18	91.F	79.F	1235.046	0.000				0.000	72266.	97.131	
AUG	422.97275	31 16	90.F	78.F	1125.594	0.000				0.000	72266.	97.131	
SEP	333.34177	1 18	89.F	72.F	1019.436	0.000				0.000	69935.	97.131	
OCT	206.03949	13 17	78.F	66.F	625.798	-1.953	28 8	32.F	31.F	-128.504	72266.	97.131	
NOV	104.83438	2 14	82.F	73.F	813.931	-37.341	23 7	28.F	25.F	-261.136	69935.	97.131	
DEC	51.58225	29 6	59.F	58.F	234.354	-141.644	22 7	16.F	14.F	-481.764	72266.	97.131	
TOTAL	2526.488					-569.443					850825.		
MAX					1235.046					-649.285		97.131	

MONTH	COOLING						HEATING						ELEC	
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)		HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)		ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	14.40490	8 22	59.F	52.F	60.567		-219.188	17 19	6.F	4.F	-595.930		27746.	37.293
FEB	13.53719	28 16	62.F	56.F	90.158		-168.980	3 7	6.F	4.F	-603.942		25061.	37.293
MAR	18.27430	1 6	65.F	62.F	210.989		-119.506	5 4	22.F	19.F	-401.397		27746.	37.293
APR	28.69227	20 14	78.F	66.F	249.995		-55.078	8 7	28.F	27.F	-327.398		26851.	37.293
MAY	55.89507	26 17	79.F	68.F	331.887		-16.736	11 2	35.F	30.F	-245.715		27746.	37.293
JUN	167.32713	30 17	86.F	78.F	750.162		-0.157	22 6	52.F	47.F	-36.528		26851.	37.293
JUL	245.47079	25 14	96.F	80.F	834.074		0.000				0.000		27746.	37.293
AUG	215.03352	31 15	90.F	79.F	790.626		-0.048	22 4	53.F	53.F	-24.176		27746.	37.293
SEP	123.32504	2 14	92.F	76.F	644.582		-2.645	30 8	46.F	43.F	-109.849		26851.	37.293
OCT	42.06193	2 17	67.F	64.F	277.590		-30.903	28 8	32.F	31.F	-283.595		27746.	37.293
NOV	28.22661	2 14	82.F	73.F	465.376		-93.642	9 7	28.F	26.F	-332.863		26851.	37.293
DEC	14.86966	29 6	59.F	58.F	100.613		-181.246	21 7	15.F	13.F	-486.553		27746.	37.293
TOTAL	967.163						-888.131						326673.	
MAX					834.074						-603.942			37.293

MDDHH	OPEN-CEN T-CHLR LOAD	OPEN-CEN T-CHLR ELECTRIC USE	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC	CERAMIC- TWR PUMP ELEC	BTU/HR
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
	---- (1)	---- (3)	---- (6)	---- (20)	---- (21)	
MONTHLY SUMMARY (JAN)						
MN	14269089.	3251600.	1.	0.	0.	400831.
MX	16980288.	6503195.	2.	0.	0.	801662.
SM	10899585024.	3193040384.	982.	0.	0.	393616128.
AV	14649980.	4291721.	1.	0.	0.	529054.
MONTHLY SUMMARY (FEB)						
MN	14362711.	3251599.	1.	0.	0.	400831.
MX	18921956.	6503195.	2.	298830.	801662.	801662.
SM	9939263488.	3378180352.	1039.	596767.	416463648.	416463648.
AV	14790571.	5027054.	2.	888.	619738.	619738.
MONTHLY SUMMARY (MAR)						
MN	3318682.	3251600.	1.	0.	0.	400831.
MX	29560824.	6503196.	2.	439233.	801662.	801662.
SM	11021732864.	3963100416.	1219.	8295698.	488613216.	488613216.
AV	14814157.	5326748.	2.	11150.	656738.	656738.
MONTHLY SUMMARY (APR)						
MN	3281531.	3251611.	1.	0.	0.	400831.
MX	29850220.	6503196.	2.	638825.	801662.	801662.
SM	11039242240.	4041616640.	1244.	31381862.	498639552.	498639552.
AV	15332281.	5613357.	2.	43586.	692547.	692547.
MONTHLY SUMMARY (MAY)						
MN	3334934.	3251602.	1.	0.	0.	400831.
MX	30345800.	6503156.	2.	863296.	801662.	801662.
SM	1312915968.	3932094464.	1217.	145967392.	487811584.	487811584.
AV	17732414.	5285073.	2.	196193.	655661.	655661.
MONTHLY SUMMARY (JUN)						
MN	4859372.	9405573.	3.	0.	0.	1202494.
MX	45518700.	10312154.	3.	1113640.	1202494.	1202494.
SM	23450791936.	6982861824.	2160.	487895200.	865795328.	865795328.
AV	32570544.	9698419.	3.	677632.	1202494.	1202494.
MONTHLY SUMMARY (JUL)						
MN	6671771.	3253382.	1.	0.	0.	400831.
MX	88498208.	22523626.	6.	1113640.	2404987.	2404987.
SM	33750382592.	11364980736.	3397.	657224448.	1361623552.	1361623552.
AV	45363416.	15275512.	5.	883366.	1830139.	1830139.

OPEN-CEN T-CHLR LOAD	OPEN-CEN T-CHLR ELECTRIC USE	OPEN-CEN T-CHLR SIZES RUNNING	OPEN-CEN TWR PAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR
----- (1)	----- (3)	----- (6)	----- (20)	----- (21)	
MONTHLY SUMMARY (AUG)					
MN 4872588.	3252821.	1.	0.	400831.	
MX 89214016.	22282330.	6.	1113640.	2404987.	
SM 32320184320.	12173550592.	3691.	657134016.	1479467776.	
AV 43441108.	16362299.	5.	883245.	1988532.	
MONTHLY SUMMARY (SEP)					
MN 3319838.	7532026.	3.	0.	1202494.	
MX 45518700.	10675864.	3.	11113640.	1202494.	
SM 19423592448.	6978715136.	2160.	386825920.	865795328.	
AV 26977212.	9692660.	3.	537258.	1202494.	
MONTHLY SUMMARY (OCT)					
MN 3358148.	7618818.	3.	0.	1202494.	
MX 44264856.	9796985.	3.	978561.	1202494.	
SM 11843082240.	7200978944.	2232.	134693824.	894655168.	
AV 15918121.	9678735.	3.	181040.	1202494.	
MONTHLY SUMMARY (NOV)					
MN 3304733.	3251598.	1.	0.	400831.	
MX 30345800.	6503196.	2.	972711.	801662.	
SM 11513944064.	3672512000.	1132.	43631744.	453740768.	
AV 15991589.	5100711.	2.	60600.	630196.	
MONTHLY SUMMARY (DEC)					
MN 14216265.	3251598.	1.	0.	400831.	
MX 22376458.	6503194.	2.	318670.	801662.	
SM 10922465280.	3001122816.	923.	2158195.	369967200.	
AV 14680733.	4033767.	1.	2901.	497268.	
YEARLY SUMMARY					
MN 3281531.	3251598.	1.	0.	400831.	
MX 89214016.	22523626.	6.	1113640.	2404987.	
SM 199317176320.	69882757120.	21396.	2555805184.	8576182784.	
AV 22753102.	7977484.	2.	291759.	979016.	

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	OFF_PWIN	408	4294738.	171789.52	11428.	11428.	0.00	
	INT_WIN	168	1745047.	80272.15	11347.	11347.	0.00	
	ON_PWIN	168	1791660.	94957.97	11347.	11347.	0.00	347019.63
FEB	OFF_PWIN	368	3941388.	157655.52	11376.	11376.	0.00	
	INT_WIN	152	1632841.	75110.67	11364.	11364.	0.00	
	ON_PWIN	152	1663760.	88179.26	11507.	11507.	0.00	320945.44
MAR	OFF_PWIN	376	4051882.	162075.27	11723.	11723.	0.00	
	INT_WIN	184	2009111.	92419.10	11693.	11693.	0.00	
	ON_PWIN	184	2042789.	108267.82	11894.	11894.	0.00	362762.19
APR	OFF_PWIN	400	4394568.	175782.73	11938.	11938.	0.00	
	INT_WIN	160	1774437.	81624.10	11801.	11801.	0.00	
	ON_PWIN	160	1791968.	94974.30	12086.	12086.	0.00	352381.16
MAY	OFF_PWIN	392	4342640.	173705.61	12278.	12278.	0.00	
	INT_WIN	176	1941991.	89331.58	12062.	12062.	0.00	
	ON_PWIN	176	2009028.	106478.48	12111.	12111.	0.00	369515.69
JUN	OFF_PSUM	368	4780200.	162526.81	14449.	14449.	0.00	
	INT_SUM	176	2296630.	107941.62	14150.	14150.	0.00	
	ON_PSUM	176	2338331.	144976.55	14416.	14416.	0.00	415445.00
JUL	OFF_PSUM	424	5841795.	198621.05	18067.	18067.	0.00	
	INT_SUM	160	2683876.	126142.18	18304.	18304.	0.00	
	ON_PSUM	160	2738258.	169772.00	18366.	18366.	0.00	494535.22
AUG	OFF_PSUM	376	5305343.	180381.66	17884.	17884.	0.00	
	INT_SUM	184	3059548.	143798.78	17965.	17965.	0.00	
	ON_PSUM	184	3121998.	193563.88	18216.	18216.	0.00	517744.31
SEP	OFF_PSUM	400	5156245.	175312.33	14089.	14089.	0.00	
	INT_SUM	160	2051026.	96398.21	13901.	13901.	0.00	
	ON_PSUM	160	2093598.	129803.09	14243.	14243.	0.00	401513.63
OCT	OFF_PSUM	408	5091790.	173120.86	13344.	13344.	0.00	
	INT_SUM	168	2094405.	98437.02	12988.	12988.	0.00	
	ON_PSUM	168	2136113.	132438.98	13468.	13468.	0.00	403996.88

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

E2DOR - ELITE SOFTWARE DEVELOPMENT INC
 DOR-2.1D 8/ 4/1995 14:51:11 EDL RUN 1

-----CONTINUED-----									
MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)	
NOV	OFF_PWIN	400	4332456.	173298.25	12151.	12151.	0.00		
	INT_WIN	160	1729840.	79572.63	12344.	12344.	0.00		
	ON_PWIN	160	1764207.	93502.97	12355.	12355.	0.00	346373.84	
DEC	OFF_PWIN	424	4433828.	177353.13	11543.	11543.	0.00		
	INT_WIN	160	1660504.	76383.18	11394.	11394.	0.00		
	ON_PWIN	160	1674979.	88773.87	11447.	11447.	0.00	342510.19	
TOTAL				4674743.00			0.00	4674743.00	

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR
 EDOE - ELITE SOFTWARE DEVELOPMENT INC
 DOE-2.1D 8/ 4/1995 14:57:51 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD
 DEFAULT-PLANT

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	9634.85254	9 13	59.F	56.F	15438.476	-39623.262	31 7	6.F	5.F	-102547.930	7270806.	9971.350
FEB	8799.80273	28 15	62.F	55.F	17781.527	-30884.990	3 7	6.F	4.F	-103518.047	6569549.	10069.745
MAR	9382.95605	1 6	65.F	62.F	33780.859	-22393.857	5 4	22.F	19.F	-70270.938	7292636.	10357.803
APR	7025.15479	20 14	78.F	66.F	42596.129	-10468.364	8 8	28.F	26.F	-57792.824	7109653.	10505.164
MAY	12803.62305	28 14	74.F	69.F	54469.211	-3313.825	10 5	35.F	29.F	-42029.590	7469056.	10729.596
JUN	29287.27734	28 17	91.F	77.F	109789.789	-101.104	22 6	52.F	47.F	-8006.262	7480005.	11567.011
JUL	41919.21875	24 19	89.F	80.F	121383.313	-12.145	21 5	56.F	54.F	-3119.688	7872504.	11538.737
AUG	37640.51563	31 15	90.F	79.F	114784.570	-41.309	22 4	53.F	53.F	-6558.915	7824472.	11563.431
SEP	23077.15430	2 12	89.F	77.F	97648.555	-697.192	30 8	46.F	43.F	-19632.287	7396297.	11438.138
OCT	8625.91211	13 16	82.F	66.F	45704.246	-5972.738	28 8	32.F	31.F	-48690.063	7422935.	10735.628
NOV	10347.96973	2 14	82.F	73.F	71920.500	-18014.441	23 7	28.F	25.F	-59500.418	7085784.	10737.224
DEC	9658.11523	29 6	59.F	58.F	20833.111	-33491.211	21 7	15.F	13.F	-84441.992	7271128.	10005.925
TOTAL	208202.516					-165014.406					88066008.	
MAX					121383.313					-103518.047		11567.011

ACT #12
 New Windows
 17, 11, 40, +41

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR BLD 7
 EDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 14:57:51 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	3.76228	9 13	59.F	56.F	230.138	-353.549	31 7	6.F	5.F	-1154.867	130046.	188.291
FEB	10.06035	28 16	62.F	56.F	379.813	-254.143	3 7	6.F	4.F	-1110.722	117846.	198.148
MAR	46.57166	29 16	74.F	56.F	621.530	-133.363	5 6	23.F	20.F	-698.847	132585.	215.780
APR	135.40771	20 14	78.F	66.F	954.990	-41.719	8 8	28.F	26.F	-552.805	133899.	242.351
MAY	346.24854	21 17	82.F	66.F	1138.944	-7.453	10 7	36.F	30.F	-313.845	151488.	256.379
JUN	655.50903	28 17	91.F	77.F	1807.242	0.000				0.000	169518.	307.045
JUL	850.41962	24 19	89.F	80.F	1823.464	0.000				0.000	187326.	307.500
AUG	791.33453	31 14	89.F	79.F	1784.570	0.000				0.000	182953.	306.705
SEP	542.79761	2 14	92.F	76.F	1610.055	0.000				0.000	161145.	297.654
OCT	237.33513	13 17	78.F	66.F	1017.753	-14.802	28 8	32.F	31.F	-388.808	144546.	247.456
NOV	83.95036	2 14	82.F	73.F	1314.795	-102.121	23 7	28.F	25.F	-560.585	130865.	267.826
DEC	4.23714	29 7	59.F	58.F	244.468	-278.855	22 7	16.F	14.F	-878.519	130079.	189.324
TOTAL	3707.636					-1186.004					1772292.	
MAX					1823.464					-1154.867		307.500

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 GENERAL WEATHER FILE- BALTIMORE, MD
 EDOE - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 8/ 4/1995 14:57:51 SDL RUN 1

MONTH	COOLING				HEATING				ELEC-			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	367.62271	8 22	59.F	52.F	-4946.103	31 7	6.F	5.F	-13554.217	485111.	652.030	
FEB	346.14203	28 16	62.F	56.F	-3787.719	3 7	6.F	4.F	-13767.471	438165.	652.030	
MAR	511.20206	29 15	75.F	57.F	-2615.635	5 4	22.F	19.F	-9075.059	485111.	652.030	
APR	829.43591	19 11	74.F	61.F	-1157.715	8 8	28.F	26.F	-7370.178	469462.	652.030	
MAY	1855.74866	28 14	74.F	69.F	-329.935	10 5	35.F	29.F	-5366.960	485111.	652.030	
JUN	3809.29175	28 17	91.F	77.F	-1.025	22 6	52.F	47.F	-438.653	469462.	652.030	
JUL	5262.93701	25 14	96.F	80.F	0.000				0.000	485111.	652.030	
AUG	4721.85889	31 15	90.F	79.F	-0.519	22 4	53.F	53.F	-262.859	485111.	652.030	
SEP	2952.61914	2 14	92.F	76.F	-43.978	30 8	46.F	43.F	-2245.781	469462.	652.030	
OCT	1325.64771	8 13	75.F	64.F	-630.843	28 8	32.F	31.F	-6295.497	485111.	652.030	
NOV	757.01154	1 12	75.F	72.F	-2046.842	23 7	28.F	25.F	-7500.453	469462.	652.030	
DEC	377.85583	29 6	59.F	58.F	-4073.159	21 7	15.F	13.F	-11053.120	485111.	652.030	
TOTAL	23116.553				-19633.496					5711546.		
MAX									-13767.471		652.030	

MONTH	COOLING					HEATING					ELEC	
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.08697	22 16	57.F	49.F	86.974	-2321.121	31 7	6.F	5.F	-6552.654	412361.	648.942
FEB	13.55137	28 17	60.F	55.F	1078.706	-1723.335	3 7	6.F	4.F	-6192.252	373265.	714.355
MAR	111.78378	29 16	74.F	56.F	2535.769	-1050.020	5 7	24.F	20.F	-4316.753	419191.	816.498
APR	414.73886	19 17	83.F	63.F	4097.271	-433.090	8 8	28.F	26.F	-3683.097	425223.	947.294
MAY	1247.14087	21 17	82.F	66.F	5098.171	-91.533	10 7	36.F	30.F	-2423.166	492952.	1016.363
JUN	2561.60107	28 17	91.F	77.F	7534.420	0.000				0.000	574635.	1232.494
JUL	3339.98901	25 18	91.F	79.F	8097.245	0.000				0.000	641819.	1267.872
AUG	3062.78784	31 18	88.F	77.F	7578.607	0.000				0.000	622116.	1239.935
SEP	2026.85510	1 18	89.F	72.F	6941.080	-5.564	30 8	46.F	43.F	-865.157	534229.	1206.233
OCT	749.69574	13 17	78.F	66.F	4312.102	-211.525	28 8	32.F	31.F	-2792.610	460637.	943.979
NOV	234.53732	2 15	81.F	72.F	5039.326	-931.513	23 7	28.F	25.F	-3649.783	414234.	981.688
DEC	0.00000				0.000	-1992.293	22 7	16.F	14.F	-5207.724	412356.	648.942
TOTAL	13762.765					-8759.996				-6552.654	5782988.	1267.872
MAX					8097.245							

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 54_APTSP
 E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/ 4/1995 14:57:51 SCL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	33.93944	9 13	59.F	56.F	1900.002	-3644.374	17 19	6.F	4.F	-10883.411	929378.	1360.231
FEB	49.84756	28 16	62.F	56.F	2444.933	-2727.859	3 6	6.F	4.F	-10846.154	840621.	1398.740
MAR	235.70625	29 14	75.F	57.F	5053.963	-1754.915	5 4	22.F	19.F	-6943.017	941856.	1581.028
APR	659.23621	19 14	83.F	64.F	7287.734	-675.773	8 8	28.F	26.F	-5420.951	938592.	1775.343
MAY	1536.33984	19 13	77.F	68.F	8367.409	-172.234	11 2	35.F	30.F	-3759.638	1025622.	1811.050
JUN	3325.58276	28 17	91.F	77.F	14407.431	0.000				0.000	1123927.	2244.603
JUL	4648.01465	9 18	91.F	77.F	13619.016	0.000				0.000	1244364.	2207.408
AUG	4300.96143	18 17	93.F	77.F	13614.819	0.000				0.000	1220410.	2222.444
SEP	2898.02759	2 14	92.F	76.F	12181.978	-13.968	30 8	46.F	43.F	-1150.482	1088996.	2143.444
OCT	1446.15845	13 14	82.F	67.F	8408.471	-347.408	28 8	32.F	31.F	-4528.100	1018756.	1845.173
NOV	497.43384	2 11	78.F	72.F	10760.764	-1295.320	23 7	28.F	25.F	-5540.527	928728.	1963.790
DEC	37.99460	28 14	62.F	57.F	2553.901	-2872.135	21 7	15.F	13.F	-8714.624	929673.	1405.524
TOTAL	19669.221					-13504.005					12231591.	
MAX					14407.431					-10883.411		2244.603

ENTECH ENGINEERING
READING, PA 19603
EZONE - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 8/ 4/1995 14:57:51 SDL RUN 1
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 HEATON WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	8627.30176	15 5	13.F	11.F	11693.745	-24225.752	31 7	6.F	5.F	-58789.977	4319428.	5805.631
FEB	7820.42871	28 15	62.F	55.F	12386.813	-19252.305	3 7	6.F	4.F	-59869.523	3901419.	5805.631
MAR	7978.51904	1 6	65.F	62.F	23099.789	-14726.472	5 4	22.F	19.F	-41758.391	4319428.	5805.631
APR	4892.73340	19 17	83.F	63.F	32021.797	-7254.164	9 7	29.F	25.F	-34681.801	4180095.	5805.631
MAY	8747.39160	28 17	78.F	69.F	40371.461	-2463.055	10 5	35.F	29.F	-26004.721	4319428.	5805.631
JUN	20795.54492	30 16	86.F	78.F	74764.172	-99.724	22 6	52.F	47.F	-7333.777	4180095.	5805.631
JUL	29877.50781	24 20	87.F	80.F	82739.453	-12.145	21 5	56.F	54.F	-3119.688	4319428.	5805.631
AUG	26858.78711	31 14	89.F	79.F	78237.719	-40.739	22 4	53.F	53.F	-6269.707	4319428.	5805.631
SEP	16304.99121	2 12	89.F	77.F	67770.242	-603.888	30 8	46.F	43.F	-13685.553	4180095.	5805.631
OCT	5556.35742	13 14	82.F	67.F	35515.574	-4287.764	28 8	32.F	31.F	-29529.379	4319428.	5805.631
NOV	8476.99023	2 14	82.F	73.F	52723.781	-12006.080	23 7	28.F	25.F	-35994.434	4180095.	5805.631
DEC	8641.05078	29 6	59.F	58.F	15177.600	-20908.521	21 7	15.F	13.F	-49338.922	4319428.	5805.631
TOTAL	154577.203					-105880.695					50854012.	
MAX					82739.453					-59869.523		5805.631

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR
 HZDOE - ELITE SOFTWARE DEVELOPMENT INC
 DOB-2.1D 8/ 4/1995 14:57:51 SDL RUN 1
 48 ADMIN WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	281.10031	9 13	59.F	56.F	779.105	-0.633	31 7	6.F	5.F	-65.016	227888.	306.303	
FEB	292.42172	28 16	62.F	56.F	843.858	-0.126	3 7	6.F	4.F	-36.344	205835.	306.303	
MAR	408.53656	29 15	75.F	57.F	1086.225	0.000				0.000	227888.	306.303	
APR	479.21790	19 16	83.F	63.F	1293.752	0.000				0.000	220537.	306.303	
MAY	662.79010	21 17	82.F	66.F	1412.813	0.000				0.000	227888.	306.303	
JUN	863.52612	30 16	86.F	78.F	1888.489	0.000				0.000	220537.	306.303	
JUL	1004.94971	25 14	96.F	80.F	1952.547	0.000				0.000	227888.	306.303	
AUG	963.56244	31 15	90.F	79.F	1925.568	0.000				0.000	227888.	306.303	
SEP	775.51825	2 14	92.F	76.F	1783.525	0.000				0.000	220537.	306.303	
OCT	566.55206	13 14	82.F	67.F	1299.625	0.000				0.000	227888.	306.303	
NOV	394.64178	2 14	82.F	73.F	1496.991	0.000				0.000	220537.	306.303	
DEC	272.36353	29 7	59.F	58.F	815.924	0.000				0.000	227888.	306.303	
TOTAL	6965.189					-0.759				-65.016	2682954.	306.303	
MAX					1952.547								

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48_WRAIR
 EDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/ 4/1995 14:57:51 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING				HEATING				ELEC			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	293.77478	8 22	59.F	52.F	1327.636	-3733.821	17 19	6.F	4.F	-10390.130	666860.	896.321
FEB	277.17239	28 16	62.P	56.P	1916.729	-2848.008	3 7	6.P	4.F	-10552.968	602325.	896.321
MAR	383.66605	1 6	65.P	62.P	4097.519	-1946.061	5 4	22.P	19.P	-6906.917	666860.	896.321
APR	647.43750	20 14	78.F	66.F	5029.596	-839.546	8 8	28.F	26.F	-5577.285	645348.	896.321
MAY	1246.67529	26 17	79.F	68.F	6573.306	-232.376	11 2	35.P	30.P	-4043.513	666860.	896.321
JUN	3278.01929	30 17	86.F	78.F	14160.387	-0.197	22 6	52.P	47.F	-197.303	645348.	896.321
JUL	5056.65381	24 19	89.F	80.F	15893.400	0.000				0.000	666860.	896.321
AUG	4457.23096	31 15	90.F	79.F	14972.331	-0.002	22 4	53.P	53.P	-2.173	666860.	896.321
SEP	2596.07690	2 14	92.P	76.F	12372.278	-27.149	30 8	46.F	43.F	-1575.466	645348.	896.321
OCT	928.64618	30 15	70.P	65.F	7179.523	-447.955	28 8	32.P	31.P	-4756.769	666860.	896.321
NOV	586.19873	2 14	82.P	73.F	9163.509	-1505.965	23 7	28.P	25.P	-5677.383	645348.	896.321
DEC	301.13696	29 6	59.F	58.F	2047.799	-3053.139	21 7	15.F	13.P	-8440.931	666860.	896.321
TOTAL	20052.000					-14634.200					7852393.	
MAX					15893.400					-10552.968		896.321

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 FITNESS
 EDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 14:57:51 SDL RUN 1
 WEATHER FILE- BALTIMORE, MD

MONTH	COOLING					HEATING					ELEC		
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM HEATING LOAD (KWH)	ELEC- TRICAL ENERGY (KWH)
JAN	50.65611	9 13	59.F	56.F	209.185	-178.733	31 7	6.F	5.F	-622.629	71996.	96.769	96.769
FEB	50.09922	28 16	62.F	56.F	269.268	-122.525	3 7	6.F	4.F	-562.495	65029.	96.769	96.769
MAR	82.76071	29 16	74.F	56.F	413.914	-47.893	5 6	23.F	20.F	-332.823	71996.	96.769	96.769
APR	147.63992	20 14	78.F	66.F	621.645	-11.274	9 8	29.F	24.F	-244.698	69674.	96.769	96.769
MAY	235.11713	21 17	82.F	66.F	688.233	-0.504	10 7	36.F	30.F	-56.918	71996.	96.769	96.769
JUN	373.58932	28 17	91.F	77.F	1124.610	0.000				0.000	69674.	96.769	96.769
JUL	471.73621	25 18	91.F	79.F	1221.821	0.000				0.000	71996.	96.769	96.769
AUG	424.05087	31 16	90.F	78.F	1116.493	0.000				0.000	71996.	96.769	96.769
SEP	324.61438	1 18	89.F	72.F	1012.247	0.000				0.000	69674.	96.769	96.769
OCT	206.64084	13 17	78.F	66.F	619.798	-1.537	28 8	32.F	31.F	-115.302	71996.	96.769	96.769
NOV	104.90633	2 14	82.F	73.F	804.560	-32.956	23 7	28.F	25.F	-244.416	69674.	96.769	96.769
DEC	50.83022	29 6	59.F	58.F	235.216	-131.880	22 7	16.F	14.F	-458.221	71996.	96.769	96.769
TOTAL	2522.576					-527.301					847659.		
MAX					1221.821					-622.629			96.769

MONTH	COOLING				HEATING				ELEC-			
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	14.40490	8 22	59.F	52.F	60.567	-219.188	17 19	6.F	4.F	-595.930	27746.	37.293
FEB	13.53719	28 16	62.F	56.F	90.158	-168.980	3 7	6.F	4.F	-603.942	25061.	37.293
MAR	18.27430	1 6	65.F	62.F	210.989	-119.506	5 4	22.F	19.F	-401.397	27746.	37.293
APR	28.69227	20 14	78.F	66.F	249.995	-55.078	8 7	28.F	27.F	-327.398	26851.	37.293
MAY	55.89507	26 17	79.F	68.F	331.887	-16.736	11 2	35.F	30.F	-245.715	27746.	37.293
JUN	167.32713	30 17	86.F	78.F	750.162	-0.157	22 6	52.F	47.F	-36.528	26851.	37.293
JUL	245.47079	25 14	96.F	80.F	834.074	0.000				0.000	27746.	37.293
AUG	215.03352	31 15	90.F	79.F	790.626	-0.048	22 4	53.F	53.F	-24.176	27746.	37.293
SEP	123.32504	2 14	92.F	76.F	644.582	-2.645	30 8	46.F	43.F	-109.849	26851.	37.293
OCT	42.06193	2 17	67.F	64.F	277.590	-30.903	28 8	32.F	31.F	-283.595	27746.	37.293
NOV	28.22661	2 14	82.F	73.F	465.376	-93.642	9 7	28.F	26.F	-332.863	26851.	37.293
DEC	14.86966	29 6	59.F	58.F	100.613	-181.246	21 7	15.F	13.F	-486.553	27746.	37.293
TOTAL	967.163					-888.131					326673.	
MAX					834.074					-603.942		37.293

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

 E2DOB - ELITE SOFTWARE DEVELOPMENT INC
 DOR-2.ID 8/ 4/1995 14:57:51 PDL RUN 1
 WEATHER FILE- BALTIMORE, MD

ENERGY TYPE	ELECTRICITY	FUEL-OIL
IN SITE MBTU -		
CATEGORY OF USE		
SPACE HEAT	0.00	253635.49
SPACE COOL	88738.61	0.00
HVAC AUX	44463.76	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	149795.82	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	106361.75	0.00
TOTAL	389359.96	253635.49

TOTAL SITE ENERGY 643008.30 MBTU 270.1 KBTU/SQFT-YR GROSS-AREA 270.1 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 1422922.74 MBTU 597.7 KBTU/SQFT-YR GROSS-AREA 597.7 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 76.1
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 16.4

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	OFF_PWIN	408	4702734.	188109.38	12396.	12396.	0.00	
	INT_WIN	168	1925094.	88554.31	12291.	12291.	0.00	
	ON_PWIN	168	1957864.	103766.78	12292.	12292.	0.00	380430.47
FEB	OFF_PWIN	368	4322142.	172885.67	12343.	12343.	0.00	
	INT_WIN	152	1786218.	82166.03	12333.	12333.	0.00	
	ON_PWIN	152	1819837.	96451.35	12494.	12494.	0.00	351503.06
MAR	OFF_PWIN	376	4423759.	176950.36	12724.	12724.	0.00	
	INT_WIN	184	2190307.	100754.14	12673.	12673.	0.00	
	ON_PWIN	184	2219104.	117612.49	12871.	12871.	0.00	395317.00
APR	OFF_PWIN	400	4600113.	184004.52	12940.	12940.	0.00	
	INT_WIN	160	1853727.	85271.43	12763.	12763.	0.00	
	ON_PWIN	160	1902065.	100809.45	13059.	13059.	0.00	370085.38
MAY	OFF_PWIN	392	4689768.	187590.73	13276.	13276.	0.00	
	INT_WIN	176	2084091.	95868.20	13056.	13056.	0.00	
	ON_PWIN	176	2163065.	114642.45	13121.	13121.	0.00	398101.38
JUN	OFF_PSUM	368	5145650.	174952.09	15443.	15443.	0.00	
	INT_SUM	176	2470364.	116107.09	15146.	15146.	0.00	
	ON_PSUM	176	2513167.	155816.34	15417.	15417.	0.00	446875.53
JUL	OFF_PSUM	424	6269767.	213172.09	19066.	19066.	0.00	
	INT_SUM	160	2846283.	133775.31	19310.	19310.	0.00	
	ON_PSUM	160	2900069.	179804.27	19365.	19365.	0.00	526751.69
AUG	OFF_PSUM	376	5695565.	193649.20	18884.	18884.	0.00	
	INT_SUM	184	3245631.	152544.66	18963.	18963.	0.00	
	ON_PSUM	184	3307594.	205070.86	19213.	19213.	0.00	551264.75
SEP	OFF_PSUM	400	5557374.	188950.70	15083.	15083.	0.00	
	INT_SUM	160	2209384.	103841.06	14907.	14907.	0.00	
	ON_PSUM	160	2252464.	139652.80	15238.	15238.	0.00	432444.56
OCT	OFF_PSUM	408	5472535.	186066.19	14353.	14353.	0.00	
	INT_SUM	168	2255632.	106014.69	13972.	13972.	0.00	
	ON_PSUM	168	2299924.	142595.30	14450.	14450.	0.00	434676.19

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D

8/ 4/1995

14:57:51

EDL RUN 1

CONTINUED

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
NOV	OFF_PWIN	400	4692683.	187707.31	13139.	13139.	0.00	
	INT_WIN	160	1879484.	86456.26	13344.	13344.	0.00	
	ON_PWIN	160	1916579.	101578.70	13355.	13355.	0.00	375742.25
DEC	OFF_PWIN	424	4859910.	194396.41	12520.	12520.	0.00	
	INT_WIN	160	1815930.	83532.77	12365.	12365.	0.00	
	ON_PWIN	160	1839252.	97480.38	12415.	12415.	0.00	375409.56
TOTAL				5038601.50			0.00	5038601.50

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

ENTECH ENGINEERING

19603

PA

REP 2

HOURLY-REPORT

MDDHH	OPEN-CEN		OPEN-CEN		OPEN-CEN		CERAMIC-		CERAMIC-	
	T-CHLR	LOAD	T-CHLR	ELECTRIC	T-CHLR	SIZES	TWR	FAN	TWR	PUMP
	BTU/HR		BTU/HR	USE	RUNNING		ELEC	BTU/HR	ELEC	BTU/HR
----- (1) ----- (3) ----- (6) ----- (20) ----- (21)										
MONTHLY SUMMARY (JAN)										
MN	1422415.		3251890.		1.		0.		400831.	
MX	17167576.		6503779.		2.		0.		801662.	
SM	10921304064.		3349373952.		1030.		0.		412856032.	
AV	14679172.		4501847.		1.		0.		554914.	
MONTHLY SUMMARY (FEB)										
MN	14352544.		3251890.		1.		0.		400831.	
MX	19510630.		6503776.		2.		301790.		801662.	
SM	9961758720.		3544281088.		1090.		602831.		436906016.	
AV	148224046.		5274228.		2.		897.		650158.	
MONTHLY SUMMARY (MAR)										
MN	3020350.		3251890.		1.		0.		400831.	
MX	29561528.		6503777.		2.		439235.		801662.	
SM	10669410304.		4028996864.		1239.		6686642.		496629856.	
AV	14340605.		5415319.		2.		8987.		667513.	
MONTHLY SUMMARY (APR)										
MN	3091339.		3251895.		1.		0.		400831.	
MX	30259214.		6503775.		2.		639080.		801662.	
SM	8207868648.		3131401216.		963.		33854196.		386000320.	
AV	11399843.		4349169.		1.		47020.		536112.	
MONTHLY SUMMARY (MAY)										
MN	3133333.		3251991.		1.		0.		400831.	
MX	30345800.		6503679.		2.		863296.		801662.	
SM	13013986304.		3671621632.		1138.		156263056.		456145888.	
AV	17491918.		4934976.		2.		210031.		613099.	
MONTHLY SUMMARY (JUN)										
MN	5733319.		9406573.		3.		0.		1202494.	
MX	45518700.		10312154.		3.		1113640.		1202494.	
SM	2420283072.		6975446528.		2160.		497628000.		865795328.	
AV	33624004.		9688120.		3.		691150.		1202494.	
MONTHLY SUMMARY (JUL)										
MN	8241703.		3252389.		1.		0.		400831.	
MX	84498208.		22523626.		6.		1113640.		2404987.	
SM	35382394880.		1132390144.		3398.		661369472.		136202448.	
AV	47556984.		15312352.		5.		888937.		1830678.	

OPEN-CEN	OPEN-CEN	OPEN-CEN	OPEN-CEN	CERAMIC-	CERAMIC-
T-CHLR	T-CHLR	T-CHLR	T-CHLR	TWR	TWR
LOAD	ELECTRIC	SIZES	FAN	PUMP	PUMP
USE	BTU/HR	RUNNING	ELEC	ELEC	ELEC
BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
----	----	----	----	----	----
1	3	6	21	21	21
MONTHLY SUMMARY (AUG)					
MN	3253221.	1.	0.	400831.	
MX	6303792.	6.	1113640.	2404987.	
SM	89214016.	3691.	663107648.	1479467776.	
AV	33964857344.	5.	891274.	1988532.	
MONTHLY SUMMARY (SEP)					
MN	9406573.	3.	0.	1202494.	
MX	4640180.	3.	1113640.	1202494.	
SM	45518700.	2160.	397281312.	865795328.	
AV	20759911680.	3.	551780.	1202494.	
MONTHLY SUMMARY (OCT)					
MN	6762638.	3.	0.	1202494.	
MX	42980235.	3.	987619.	1202494.	
SM	44377064.	2232.	116305168.	894655168.	
AV	9912360960.	3.	156324.	1202494.	
MONTHLY SUMMARY (NOV)					
MN	3251890.	1.	0.	400831.	
MX	3009781.	2.	972711.	801662.	
SM	30345800.	1109.	42759500.	444521664.	
AV	10729222944.	2.	59388.	617391.	
MONTHLY SUMMARY (DEC)					
MN	14239592.	1.	0.	400831.	
MX	22562214.	2.	319382.	801662.	
SM	10944559104.	963.	2764286.	386000416.	
AV	14710429.	1.	3715.	518818.	
YEARLY SUMMARY					
MN	2980235.	1.	0.	400831.	
MX	89214016.	6.	1113640.	2404987.	
SM	198171639808.	21173.	2578621952.	8486797312.	
AV	22622334.	2.	294363.	968813.	

ATTACHMENT G

Meeting Minutes and Schedule

ENTECH

WALTER REED MEETING MINUTES NO. 1

Project: Chilled Water Study - Walter Reed Army Medical Center
Project No. 4130.02/830

Contract No.: DACA01-94-D-0037

Meeting Date: October 17, 1994
Walter Reed Army Medical Center, Building 1

Minutes Issue Date: October 21, 1994

Attendees: Regina Larrabee - WRAMC
Mr. Abas Keshavarz - WRAMC
Bill McMahon - Entech Engineering, Inc.
Jack Fisher - Entech Engineering, Inc.
Ed Caulkins - Entech Engineering, Inc.

Distribution: Regina Larrabee - WRAMC
Mr. Mlecik - USAED, Norfolk
Mr. Bataglia - USAED, Mobile
Bill McMahon - Entech Engineering, Inc.
Jack Fisher - Entech Engineering, Inc.
Ed Caulkins - Entech Engineering, Inc.



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Items Discussed:

- 1.1 Started meeting with a brief introduction of all attendees.
- 1.2 Mr. Abas Keshavarz is the engineer familiar with the chilled water system. Abas is located in Office OC12, Building #1, telephone number (202)-576-4415.
- 1.3 Honeywell is negotiating for a contract to perform energy improvement projects on site. Furnished as background knowledge for any necessary coordination in the future.
- 1.4 The existing chilled water system suffers from distribution problems. As a result, many buildings have independent air cooled water chillers. Some buildings may have provisions for tie-in to the central plant though are currently on independent chillers.
- 1.5 Entech will evaluate building cooling loads as block loads and will not get into the specific building systems of each.
- 1.6 Entech will not discard the Alphatec report, but will build upon the information incorporated in that report.
- 1.7 Briefly reviewed Entech scope of work to develop a common understanding of proposed work and its interface with Walter Reed personnel.
- 1.8 Mr. Keshavarz noted that WRAMC presently has a manpower shortage to maintain physical plants and asked Entech to keep such requirements in mind during our study and analysis.
- 1.9 Boiler efficiency was noted as poor due to oversized boilers and the additional need for a backup boiler to be on-line at all times. Entech will include this information in its analysis should steam absorption chillers become an option in this study.
- 1.10 Mr. Keshavarz noted that the chilled water system experiences problems with high back pressure on the return side of the loop.
- 1.11 New buildings under construction and design have air cooled chillers with secondary pumping systems designed for future tie-in to the main plant loop.

- 1.12 WRAMC has several large chillers which use R-11 and R-500. They are currently incurring high maintenance costs to replace and charge existing CFC refrigerant machines.
- 1.13 Existing controls are not DDC systems. However, there is a campus monitoring system (EMCS) by Williams Electric of Florida. The system is outdated and parts are generally unavailable.
- 1.14 In general the chiller plant capacity is adequate for current loads, the weak link is the distribution system.
- 1.15 Entech will develop a project schedule for the implementation of this study to be reviewed with Regina as soon as available.
- 1.16 It was noted that there is inadequate steam available in the existing chiller plant for steam absorption type chillers. In addition, cooling towers were noted as probably inadequate for use with absorption chillers.
- 1.17 A new Trane chiller is presently being installed to replace one of the original York chillers.
- 1.18 It was noted that the main chiller plant lacks proper means for isolation to service chiller equipment. This problem became apparent during the recent installation of the new Trane chiller.
- 1.19 WRAMC personnel reminded Entech to keep the hospitals continuous operation in mind when proposing any changes to the chilled water system.
- 1.20 Entech requested the following information for Monday, October 24, 1994:
 - ♦ Chiller plant drawings to be copied onsite.
 - ♦ Chilled water distribution system drawings to be copied onsite.
 - ♦ Disk for Alphatec drawings in report.
 - ♦ Single line power distribution drawing for site.
 - ♦ Two (2) years of electric bills January 1992 to present.
 - ♦ Cost of steam.
 - ♦ Copy of gas and electric tariff for WRAMC.
- 1.21 Ms. Larrabee will make arrangements for a parking permit for Entech.
- 1.22 No requirements for badges or camera passes are required. Entech will coordinate all site visits with Ms. Larrabee and notify her before any camera pictures are taken onsite.

- 1.23 Next meeting will be held on **Monday, October 24, 1994 at 11:00 a.m.** in Building #1 WRAMC with Abas Keshavarz. Ms. Regina Larrabee will be out of the office until the following week.

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within five (5) days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,



Edward L. Caulkins, P.E.
Project Manager

ELC:caf

ENTECH

WALTER REED MEETING MINUTES NO. 2

Project: Chilled Water Study - Walter Reed Army Medical Center
Project No. 4130.02/830

Contract No.: DACA01-94-D-0037

Meeting Date: October 24, 1994
Walter Reed Army Medical Center, Building 1

Minutes Issue Date: October 26, 1994

Attendees: Mr. Abas Keshavarz - WRAMC
Jack Fisher - Entech Engineering, Inc.
Ed Caulkins - Entech Engineering, Inc.

Distribution: Regina Larrabee - WRAMC
Mr. Mlecik - USAED, Norfolk
Mr. Battaglia - USAED, Mobile
Bill McMahon - Entech Engineering, Inc.
Jack Fisher - Entech Engineering, Inc.
Ed Caulkins - Entech Engineering, Inc.



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Items Discussed:

- 2.1 No formal meeting was planned. Objective was to receive several pieces of data and drawings requested at Meeting No.1.

The following information was transmitted to Entech Engineering:

Drawings:

- Electrical Site Distribution Single Line Diagram, dated 01-24-77 (with update notations)
- Building #48 Chiller Plant Addition/Cooling Tower Replacement Project, dated 04-13-73, As-built Mar.76, M-1, M-2, M-3, M-4, M-5, M-6, M-8, M-9, M-10, M-11, E-1, E-2, E-3 (copies of prints to be retained by Entech and Dwg. No. 26-06-11.
- Reservation Master Plan, Basic Information Maps dated Oct. 1987, Reservation Map, Utilities Maps; Electric, Fire Alarm, Heating, Gas, Domestic HW, Energy Monitoring, Chilled Water and Historical Record Map. (original prints to be copies by entech and returned to Abas Keshavarz) Dwg. No. 931-10-08.

Printed Matter:

- Installation Commander Annual Real Property Utilization Survey (ICARPUS), dated April 1994.
 - PEPCO Billings Dec. 1992 to Sep. 1994, 14th and Elder Streets, NW Service Address.
 - PEPCO Billings Dec. 1991 to Sep. 1994, Walter Reed Hospital Service Address.
 - Washington Gas Billings Sep. 1993 to Aug. 1994.
 - Monthly Bulk Petroleum Accounting Summary Dec. 1993 to Mar. 1994.
 - Washington Gas Light Co. Rate Schedules May 24, 1991
 - PEPCO Rate Schedules June 5, 1994.
- 2.2 Reviewed the current site map with Mr. Keshavarz to identify existing building with air cooled chillers to provide central cooling water.
- 2.3 Following the meeting, Entech personnel walked the entire site to familiarize themselves with building types, functions, construction, and documented cooling equipment which was accessible.
- 2.4 Next meeting will be scheduled upon Ms. Larrabee's return next week.

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within five (5) days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Edward L. Caulkins".

Edward L. Caulkins, P.E.
Project Manager

ELC:caf

ENTECH

WALTER REED MEETING MINUTES NO. 3

Project: Chilled Water Study - Walter Reed Army Medical Center
Project No. 4130.02/830

Contract No.: DACA01-94-D-0037

Meeting Date: December 21, 1994
Walter Reed Army Medical Center, Building 1

Minutes Issue Date: January 4, 1995

Attendees: Mr. Abas Keshavarz - WRAMC
Ms. Regina Larrabee - WRAMC
Ed Caulkins - Entech Engineering, Inc.

Distribution: Regina Larrabee - WRAMC
Mr. Mlecik - USAED, Norfolk
Mr. Battaglia - USAED, Mobile
Bill McMahon - Entech Engineering, Inc.
Jack Fisher - Entech Engineering, Inc.
Ed Caulkins - Entech Engineering, Inc.



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Fax 610.373.7537

Items Discussed:

- 3.1 No formal meeting was planned. Objective was to conduct field survey and collect additional drawings.

The following information was transmitted to Entech Engineering:

Drawings:

- Miscellaneous drawings for chiller plants and all buildings served by central chilled water system. Entech sorted and copied appropriate drawing from WRAMC drawing files room.

Printed Matter:

- Washington Gas Billings Oct. 1992 to Sept. 1993 and Sept. 1994.
- Monthly Bulk Petroleum Accounting Summary Dec. 1993 to Mar. 1994.

- 3.2 Discussed current operating deficiencies of Building 48 chiller plant. Following items were revisited in our discussions:

- No existing isolation valves to allow selective shutdown and isolation of specific chillers and pumps for service or replacement. Consider this in difficulty factor when evaluating options.
- Currently pumping limitations on chilled water distribution system. This requires additional pumps to provide adequate flow at Building 2 during certain operating periods. This results in more pumps than chillers operating and therefore excessive flows and pressure drops through chillers.
- Make sure that additional manpower and maintenance costs are included where appropriate for proposed options versus existing.
- Current site wide chilled water distribution system is not operating as a true primary-secondary system.
- During peak loads, WRAMC uses selective load shedding in Building's 1, 41 and 40 as required to maintain Building 2 loads.

- 3.3 Discussed current operating characteristics of Building 49 chiller plant.
- Plant originally installed to accommodate Building 14. Actual load was significantly less than installed capacity.
 - Building 11 and 17 were added to the chilled water plant to use some of the available capacity. Plant currently operates at a low chilled water temperature difference indicative of loads below capacity.
- 3.4 Building 54 chilled water plant usually on line from May through September. Other months Building 54 runs off Building 48 plant. In addition, secondary pumps in Building 54 are only used when building chillers are used. Building 48 chilled water pumps provide pumping during winter season cooling.
- 3.5 Building 1 will be renovated to become an outpatient clinic.
- Building 40 is also scheduled for future renovations.
- 3.6 Survey of Building 48 chilled water plant conducted. Mr. Chris Whelehan, Plant Operator, provided support for finding chiller logs and answering general operation questions.
- 3.7 Cooling towers are ceramic tile towers by CTI, Inc.
- 3.8 Cooling tower 1 is currently off-line due to fan blade failure. Parts are on order.
- 3.9 Usually a minimum of two (2) chillers running in Building 48 during winter.
- 3.10 New Trane chiller is operational but not being used until operator training is complete. Anticipated training early January 1995.
- 3.11 Chillers are interlocked with cooling towers. Chiller start up is manual and based on water temperature to and from Building 2.
- 3.12 Chiller log books indicated peak summer weather on July 8 and 9, 1994.

7/8/94	98°F DB	87°F WB	65% RH
7/9/94	98°F DB	91°F WB *	88% RH *

* appears questionable

- 3.13 Completed field survey of Building's 48, 49 and 54 chiller plants to understand system design and document equipment nameplate data.
- 3.14 Data for new BRAC building construction drawings was documented for proposed load data.
- 200 ton air cooled chiller, 480 GPM
10 ton DX split system for computer room
5 ton DX split system for elevator machine room
- 3.15 Fuel oil cost is \$.70 per gallon for the last three (3) years. Fixed rate under defense agency contract.

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within five (5) days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,



Edward L. Caulkins, P.E.
Project Manager

ELC:tmg

			1994												1995											
			Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul		
1	Contract Award	0.00 Days																								
2	Project Kick-off Meeting	0.00 Days																								
3	Second Meeting	0.00 Days																								
4	Data Gathering/Site Visits	15.40 Weeks																								
5	Billing Histories	4.00 Weeks																								
6	Study Chiller Plant Drawings	2.00 Weeks																								
7	Utility Rate Analysis	2.00 Weeks																								
8	Reveiw Chiller Logs	2.00 Weeks																								
9	Heat Gain Calculations	4.00 Weeks																								
10	Chilled Water System Losses	2.00 Weeks																								
11	Energy Use Model	4.00 Weeks																								
12	Draft ECO's	2.00 Weeks																								
13	Regulatory Requirements	2.00 Weeks																								
14	Project Update Mtg @ WRAMC	0.00 Days																								
15	DeveloP ECO's	4.00 Weeks																								
16	Interim Submittal	0.00 Days																								
17	Interim Review	2.00 Weeks																								
18	Interim Presentation	0.00 Days																								
19	ECO Analysis	10.00 Weeks																								
20	Prepare Draift Report	2.00 Weeks																								
21	Project Up-date Mtg @ WRAMC	0.00 Days																								
22	Prepare Pre-Final Submittal	2.00 Weeks																								
23	Pre-Final Submittal	0.00 Days																								
24	Pre-Final Submittal Review	2.00 Weeks																								
25	Final Submittal	0.00 Days																								

Noncritical

Slack

Project: 4130_02

Critical

Milestone

Date: Jan 26 1995 10:39 AM

Walter Reed Army Medical Ctr
Chiller Study

ENTECH ENGINEERING, INC.

LETTER OF TRANSMITTAL

Please reply to: 500 Penn Street 1851 West End Avenue
P.O. Box 32 P.O. Box 389
READING, PA 19603 POTTSVILLE, PA 17901
(610) 373-6667 (717) 628-5655
FAX: (610) 373-7537 FAX: (717) 628-5097

DATE: November 10, 1994

JOB NO. 4130.02

TO: Commander, U.S. Army Engineer District, Norfolk

ATTN: CENAO-EN-MP (MR. MLECICK)

803 Front Street, Norfolk, VA 23510

ATTENTION:

Mr. Mlecik

RE:

Walter Reed Medical Center

Chiller Water Study

DACAO1-94-D-0037-003

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

- ☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change Order ☐ Monthly Report

COPIES	DATE	NO.	DESCRIPTION
1	11/9/94		Monthly Report

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS:

COPY TO: Ms. Regina Larrabee; Mr. Battaglia; B. McMahon

SIGNED: Edward Caulkins, P.E.

VIA - U.S. Mail

EEAP MONTHLY REPORT

November 9, 1994

PROJECT: WALTER REED MEDICAL CENTER CHILLED WATER STUDY

CONTRACT: DACA01-94-D-0037---DO-0003

CONTRACTOR: ENTECH ENGINEERING INC., READING, PA

SUMMARY OF PROGRESS:

Last month Entech executed DD1155 and returned same. We petitioned for Project Manager approval as required and received an oral acceptance of the candidates. An Entry Interview was held and documentation prepared. Information was requested of the Government and much of the data was furnished at our second meeting. Site investigation work was conducted during our second trip.

FORECAST OF EFFORTS:

Planned for the month of November is continued field collection of building data, existing chilled water plants, review of plant operating logs and cooling load profiles. We have begun to analyze utility bills furnished by the Director of Public Works. This analysis will continue this month to fully understand the rate structures as they apply to the current and future utility billings. The collection of this data will allow us to begin the calculations necessary to begin the analysis of the chilled water system.

COMMERCIAL STATUS:

Invoice format and the proposed monthly schedule was submitted, reviewed and approved. Invoice number one was submitted.

CORP ACTION ITEMS:

We have requested and await certain government documents that are required and may influence the study. These requests have been submitted in conjunction with a parallel project, Letterkenny Lighting Study DACA01-94-D-0037--DO-0004, to avoid duplication of effort. Mr. Mlecik has promised these documents are forthcoming.

END OF MONTHLY REPORT

ENTECH ENGINEERING, INC.

LETTER OF TRANSMITTAL

Please reply to:

500 Penn Street

1851 West End Avenue

5930 Hamilton Blvd.

P.O. Box 32

P.O. Box 389

ALLEN TOWN, PA 18106

READING, PA 19603

POTTSVILLE, PA 17901

(610) 373-6667

(717) 628-5655

(610) 366-8182

(610) 373-7537

FAX: (717) 628-5097

FAX: (610) 366-8184

DATE: December 14, 1994 JOB #4130.02

TO: Commander, U.S. Army Engineer District, Norfolk

Attn: CENAO-EN-MP (MR. MLECICK)

803 Front Street

Norfolk, VA 23510

ATTENTION: Mr. Mlecik

RE: Walter Read Medical Center

Chiller Water Study

DACA01-94-D-0037-003

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop Drawings

☐ Prints

☐ Plans

☐ Samples

☐ Specifications

☐ Copy of letter

☐ Change Order

☒ Monthly Report

COPIES	DATE	NO.	DESCRIPTION
1	12/8/94		Monthly Report

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☐ Return _____ corrected prints

☐ For review and comment

☐ _____

☐ FOR BIDS DUE _____ 19____

☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS:

TO: Ms. Regina Larrabee, Mr. Battaglia, B. McMahn

SIGNED:

Edward Caulkins

VIA - U.S. Mail

Edward Caulkins, Project Manager

tmg

If enclosures are not as noted, please notify us at once.

File: G:\PROJECTS\4130.02\WP\MLECICK.T02

EEAP MONTHLY REPORT

December 8, 1994

PROJECT: WALTER REED MEDICAL CENTER CHILLED WATER STUDY

CONTRACT: DACA01-94-D-0037---DO-0003

CONTRACTOR: ENTECH ENGINEERING INC., READING, PA

SUMMARY OF PROGRESS:

Last month Entech performed a Utility Rate Analysis for both electric and gas. This analysis is used to develop incremental costs for fuels in order to calculate energy savings for proposed energy conservation options. As part of this analysis billing rates were analyzed, broken down and in some cases reviewed with the utility companies for a clear understanding of the billing calculations and to verify accuracy.

A campus building summary chart was developed to consolidate pertinent information which will be used for calculations such as square foot, building usage, glass area, and intended building life.

FORECAST OF EFFORTS:

Planned for the month of December is continued field collection of building data, existing chilled water plants, review of plant operating logs and cooling load profiles. The collection of this data will allow us to begin the calculations necessary for the analysis of the chilled water system.

COMMERCIAL STATUS:

Invoice number one remains unpaid. There is no invoice submitted for November.

CORP ACTION ITEMS:

We have requested and await certain government documents that are required and may influence the study. These requests have been submitted in conjunction with a parallel project, Letterkenny Lighting Study DACA01-94-D-0037--DO-0004, to avoid duplication of effort. Mr. Mlecik has promised these documents are forthcoming. We are still awaiting delivery of these items.

END OF MONTHLY REPORT

ENTECH ENGINEERING, I

LETTER OF TRANSMITTAL

Please reply to:

500 Penn Street
P.O. Box 32
READING, PA 19603
(610) 373-6667
(610) 373-7537

1851 West End Avenue
P.O. Box 389
POTTSVILLE, PA 17901
(717) 628-5655
FAX: (717) 628-5097

5930 Hamilton Blvd.
ALLENTOWN, PA 18106
(610) 366-8182
FAX: (610) 366-8184

DATE: 1/18/95

JOB #4130.02/830

TO: Commander, U.S. Army Engineer District, Norfolk

Attn: CENAO-EN-MP (MR. MLECIC)

803 Front Street

Norfolk, VA 23510

ATTENTION: Mr. Mlecik

RE: Walter Read Medical Center

Chiller Water Study

DACA01-94-D-0037-003

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

- ☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change Order ☒ Monthly Report

COPIES	DATE	NO.	DESCRIPTION
1	1/10/95		Monthly Report

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☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS:

TO: Ms. Regina Larrabee, Mr. Battaglia, B. McMahon

SIGNED:

Edward Caulkins

VIA - U.S. Mail

Edward Caulkins, Project Manager

ELC:tmg

If enclosures are not as noted, please notify us at once.

File:G:\PROJECTS\4130.02\WP\MLECIC.T03

EEAP MONTHLY REPORT

January 10, 1994

PROJECT: WALTER REED MEDICAL CENTER CHILLED WATER STUDY
CONTRACT: DACA01-94-D-0037--DO-0003
CONTRACTOR: ENTECH ENGINEERING INC., READING, PA

SUMMARY OF PROGRESS:

In December, Entech finalized the development of incremental costs for electric and gas utilities. These incremental costs will be used in the calculations for energy conservation options. This data accounts for on-peak, interim, and off-peak time periods as presently billed by PEPCO.

A team of two Entech engineers spent two days on site to interview personnel on the operation of the main chiller plants and gather log data available to support actual usage during 1994. As part of this investigation each plant was visited to take pictures, identify equipment and determine system layout and operation. This information will be used in the development of chiller plant alternative evaluations.

Entech personnel duplicated several existing building drawings from the plan files room in Building 1 to allow the start of computer generated building loads. These cooling loads will be used to verify current chiller system operating loads and also account for future loads. These calculations have been started using Elite CHVAC and will be converted to Elite EZDOE II.

FORECAST OF EFFORTS:

In January 1995, the computer generated cooling loads will be completed and compared with chiller plant operating logs. This data will be used to begin the development and evaluation of chiller plant alternatives for energy savings.

By the end of January, Entech anticipates the documentation of all alternatives to be evaluated as well as preliminary calculations/evaluations. Along with this work the Methodology, Facility Description, Energy Use and Costs sections are expected to be completed in draft form.

Entech has discussed the planning of a progress meeting in early February with Walter Reed Medical Center representative Ms. Regina Larrabee. The intent of the meeting is to review alternatives and allow owner input prior to the interim submission in early March.

COMMERCIAL STATUS:

Two invoices have been submitted to date. Neither invoice has been paid to date.

CORP ACTION ITEMS:

Entech requests that the Corp process and pay invoices which have been submitted for the months of October and December of 1994.

END OF MONTHLY REPORT

ENTECH ENGINEERING, INC.

LETTER OF TRANSMITTAL

Please reply to:

500 Penn Street

1851 West End Avenue

5930 Hamilton Blvd.

P.O. Box 32

P.O. Box 389

ALLENTOWN, PA 18106

READING, PA 19603

POTTSVILLE, PA 17901

(610) 373-6667

(717) 628-5655

(610) 366-8182

(610) 373-7537

FAX: (717) 628-5097

FAX: (610) 366-8184

DATE: 2/10/95

JOB #4130.02/830

TO: Commander, U.S. Army Engineer District, Norfolk

ATTENTION: Mr. Mlecik

Attn: CENAO-EN-MP (MR. MLECIK)

RE: Walter Read Medical Center

803 Front Street

Chiller Water Study

Norfolk, VA 23510

DACA01-94-D-0037-003

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☐ Shop Drawings

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☐ Copy of letter

☐ Change Order

☒ Monthly Report

COPIES	DATE	NO.	DESCRIPTION
1	2/10/95	1	Monthly Report
1	1/26/95	2	Project Schedule

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☐ Return _____ corrected prints

☐ For review and comment

☐ _____

☐ FOR BIDS DUE _____ 19____

☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS:

TO: Ms. Regina Larrabee, Mr. Battaglia, B. McMahon

SIGNED:

Edward Caulkins

VIA - U.S. Mail

Edward Caulkins, Project Manager

ELC:mg

If enclosures are not as noted, please notify us at once.

File: G:\PROJECTS\4130.02\WP\MLECIK.T04

EEAP MONTHLY REPORT

February 6, 1995

PROJECT: WALTER REED MEDICAL CENTER CHILLED WATER STUDY

CONTRACT: DACA01-94-D-0037---DO-0003

CONTRACTOR: ENTECH ENGINEERING INC., READING, PA

SUMMARY OF PROGRESS:

In January, Entech finalized the development of computer generated cooling loads using Elite EZDOE software. This computer simulation was generated to help confirm the cooling load profiles as determined from the Building 48 chiller plant. This data is also being compared with the PEPCO electric bills to confirm existing chiller plant contributions

Entech made a site visit in January to retrieve some additional information regarding the operation and existing conditions of the chiller plants, remote chillers, building insulation and the boiler plant. These issues were addressed to further justify chilled water load and operating procedures. Information regarding operation was discussed with Robert Marzo (Building 48), Ali Salahuddin (HVAC Group) and Alvin Kornegay, Jr. (Boiler Plant). The information received is instrumental in the further development of chiller plant alternatives to be evaluated.

The generation of the Electric Model to aid in the analysis of present chilled water energy usage is the progress. This model will allow Entech to compare alternatives by modifying chilled water system components and operating strategies to make better and more efficient use of energy.

FORECAST OF EFFORTS:

The primary goals for February are the preliminary development of Chiller System Alternatives. These alternatives along with Methodology, Facility Description, Energy Use and Costs and Energy Calculation sections of the study will be generated for the Interim Submission in early March.

COMMERCIAL STATUS:

Invoices for October and December 1994 and January 1995 have been submitted to date. No invoice has been paid to date. Ed Caulkins will contact Mr. Steve Mlecik to resolve.

CORP ACTION ITEMS:

Entech requests that the Corp process and pay invoices which have been submitted for the months of October and December of 1994.

Entech would like to set up interim submission date and presentation date. Ed Caulkins to contact Mr. Steve Mlecik and Ms. Regina Larrabee to coordinate dates. Approximate dates are identified in attached project schedule.

END OF MONTHLY REPORT

[illegible]

ATTACHMENT H

Telephone Conversations and Field Survey Reports

Principals:

Daniel J. Castellani, PE

Thomas M. McMahon, PE

William M. McMahon Jr., PE



ENTECH

**ENTECH ENGINEERING, INC.
TELEPHONE AND CONFERENCE MEMORANDUM**

DATE: 11/11/94

BY: Jack Fisher

PROJECT NO.: 4130.02

PERSON(S): Ms. Regina Larrabee

TELEPHONE NO: (202) 782-0315

FAX NO.: (202) 782-8383

PHONE CODE: 830

REPRESENTING: Walter Reed Medical Center

TITLE: Energy Conservation Engineer

**SUBJECT: Walter Reed Army Medical Center
Chilled Water Study**

NOTES:

1. Demolition of Building 1D shown in Property Utilization Survey (PUS), has indicated new construction of the Surgical Annex in the Alphatec Study, is long range beyond the year 2000.
2. AFIP addition, shown in the Alphatec Study, is long-range beyond the year 2000.
3. Demolition of Buildings 1C, 1G, 1J, 1K, and 1L are probably within present and the year 2000.
4. The MRI building and the 2-D Scan addition are completed and Building 1M was demolished.



4 South Fourth Street
P.O. Box 32
Reading
Pennsylvania 19603

Office 610.373.6667

Fax 610.373.7537

5. Computer Building T-2 will probably be demolished 1998-2000. Some people will be relocated to a new facility at Forest Glen. Building 40 functions will be moved elsewhere and the building will be renovated by the year 2000. The remaining people from T-2 will move into Building 40.
6. Barracks renovation/addition, Building 14, has been pushed back and forth several times. Probably will be completed 1998-2000.
7. New Physical Fitness and Transient Lodging facilities will be built by the year 2000. Existing facilities will remain in use.
8. In addition, Building 16 and some other small buildings including the Grounds Shops which are presently not air conditioned, will be demolished and a new Building 16 built. The building will include an office area and hopefully be added to chiller Building 49's loop.
9. Building 91 presently is not on the chilled water loop. The building is scheduled to be renovated and hopefully added to the "New Chilled Water Loop."

TELEPHONE CONVERSATION RECORD

ENTECH ENGINEERING, INC.
500 PENN STREET, BOX 32
READING, PA 19603

ENTECH No.: 4130.02

DATE: 1-13-95

PHONE: (610) 373-6667
FAX: (610) 373-7537

PROJECT: WALTER REED MEDICAL CENTER

NAME

COMPANY

REGINA LARABEE (202) 782-0315 WRAMC

E. CAULKINS

ENTECH

ITEMS DISCUSSED:

Q: ASKED REGINA IF CADD SITE DRAWINGS ARE AVAILABLE ON

A: DISK? ALTHOUGH ORIGINALS ARE CADD GENERATED REGINA BELIEVES WRAMC ONLY HAS MYLAR REPRODUCIBLES.

Q: WHAT IS RELATIVE TIME FRAME AND OR CERTAINTY OF SURGICAL ANNEX & AFIP ADDITION?

A: IF THEY GO AHEAD IT WILL NOT BE UNTIL THE YEAR 2005 OR LATER. THEY COULD DISAPPEAR OR BECOME DIFFERENT BUILDINGS IN THE FUTURE. ENTECH WILL ASSUME BLDGS. AS PROPOSED FOR YEAR 2005.

Q: WOULD LIKE TO HAVE A PROGRESS MEETING WITH WRAMC AND ANYONE ELSE NECESSARY APPROXIMATELY FEB 7, 1995.

A: REGINA INDICATED THIS WEEK SHOULD BE OKAY. ELC TO CONFIRM INTERNALLY AND FINALIZE W/ REGINA.

cc:

J. FISHER

B. McMAHON

CFF-4130.02

TELEPHONE CONVERSATION RECORD

ENTECH ENGINEERING, INC.
500 PENN STREET, BOX 32
READING, PA 19603

ENTECH No.: 4130.02

DATE: 1-13-95

PHONE: (610) 373-6667
FAX: (610) 373-7537

PROJECT: WRAMC

<u>NAME</u>	<u>COMPANY</u>
<u>ABAS KESTAVARZ (202) 782-4415</u>	<u>WRAMC - West Eick</u>
<u>E. CAULKINS</u>	<u>ENTECH</u>

ITEMS DISCUSSED:

Q: Asked ABAS if ANY CADD DRAWINGS (FILES) ARE AVAILABLE FROM HIS DEPARTMENT? HE INDICATED THAT HE REQUIRES DISKS FOR ALL HIS PROJECTS. HE WILL LOOK TO SEE WHAT IS AVAILABLE FROM HIS DEPARTMENT.

ABAS ALSO MENTIONED THAT TRANE HAS SUBMITTED AN ENERGY/IMPROVEMENT PROPOSAL TO COMPETE WITH THE HONEYWELL PROPOSAL. THE ONLY DIFFERENCE IS THAT TRANE'S PROPOSAL IS FOR CHILLED WATER SYSTEMS ONLY. ABAS BELIEVES THIS PROPOSAL TO BE MORE FAVORABLE THAN HONEYWELL BUT IS OBVIOUSLY ANXIOUS FOR OUR ANALYSIS PORTION OF OUR STUDY.

cc: J Fisher
B. McMath
CPF- 4130.02

TELEPHONE CONVERSATION RECORD

ENTECH ENGINEERING, INC.
500 PENN STREET, BOX 32
READING, PA 19603

ENTECH No.: 4130.02

DATE: 2/16/9

PHONE: (610) 373-6667
FAX: (610) 373-7537

PROJECT: WRAMC

CHILLER STUDY

NAME

COMPANY

HENRY MITCHELL

WRAMC, SPACE PLANNER

JACK FISHER

ENTECH

TELECON W/REGINA THIS SAME DAY: BLDG #7 CHILLER
IS \approx 200 TONS

ITEMS DISCUSSED:

HEATON PRAVILION Φ
1-BASEMENT
7-OCCUPIED FLOORS
7-INTERSTITIAL FLOORS

2,548,428 OCCUPIED
23,900 DINING
2,572,328 NET Φ
1,240,441 INTERSTITIAL SPACE
3,812,769 GROSS Φ

MRI, BLDG. 5

9,934 GROSS Φ
8,832 NET Φ

BRAC, BLDG. 6

65,500 GROSS Φ
32,544 INTERSTITIAL
32,956 NET Φ

BLDG T-2 BUILT 1972
MRI, BLDG 5 BUILT 1993

cc:

FIELD SURVEY REPORT

Date: February 1, 1995

Entech Project: #4120.03

Attendees: Mr. Ali Salahuddin — HVAC Group
Mr. Ed Caulkins, P.E. — Entech Engineering, Inc.
Mr. Danny Smith — Entech Engineering, Inc.

Location: Walter Reed Army Medical Center

Mr. Salahuddin is responsible for Buildings 1, 7, 38, T-2, and 11.

Mr. Salahuddin gave us a brief tour of AHU systems in Buildings 1 and T-2.

Building 1 uses three-way control valves.

Building T-2 uses two-way control valves.

Control valves are in many cases in need of replacement, several were observed leaking.

The air-cooled chiller for Building T-2 is no longer operational. Estimated repair costs have resulted in unit being abandoned in place.

FIELD SURVEY REPORT

Date: February 1, 1995

Entech Project: #4120.03

Attendees: Mr. Robert Marzo — Chiller Plant Operator
Mr. Ed Caulkins, P.E. — Entech Engineering, Inc.
Mr. Danny Smith — Entech Engineering, Inc.

Location: Walter Reed Army Medical Center

Building 54

Chiller #1 Rebuilt three (3) years ago, compressor and tubes.
Chiller #2 Retubed.

Original cooling tower is in poor condition. All wood components are in bad shape.

Buidling 48

Chiller #1	(York)	Has received general maintenance only.
Chiller #2	(York)	Has received general maintenance only.
Chiller #3	(Trane)	Installed 1994.
Chiller #4	(Carrier)	
Chiller #5	(Carrier)	Rebuilt mid-summer 1994.
Chiller #6	(Carrier)	Compressor rebuilt May 1994.

Buidling 49

Chiller Rebuilt motor windings, replaced gaskets.

FIELD SURVEY REPORT

Date: February 1, 1995

Entech Project: #4120.03

Attendees: Mr. Alvin Kornegay, Jr. — Boiler Operator

Mr. Ed Caulkins, P.E. — Entech Engineering, Inc.

Mr. Danny Smith — Entech Engineering, Inc.

Location: Walter Reed Army Medical Center

Boiler Plant

Steam generated at 110 psig:

Boiler #1	(Keeler)	100,000 #/hr.
Boiler #2	(Keeler)	100,000 #/hr.
Boiler #3	(Keeler)	60,000 #/hr.
Boiler #4	(Keeler)	60,000 #/hr.

Winter Operation:

Boilers #1 and #2	On.
Boilers #3 and #4	Idle.

Summer Operation:

Boilers #3 and #4	On.
-------------------	-----

Log Data:

January 19, 1994	2,708,500 #/day 112,855 #/hr average
------------------	---

July 20, 1994	589,600 #/day 24,567 #/hr average
---------------	--------------------------------------

While in boiler plant (2/1/95):

Boiler #1	Running at 58% load
Boiler #2	Running at 27% load

ENTECH ENGINEERING INC.
4 South Fourth Street
P.O. Box 32
Reading, PA 19603
(610) 373-6667
FAX NO. (610) 373-7537

FAX TRANSMITTAL

DATE: JULY 27, 1995

ENTECH PROJECT #/NAME: 4130.02/Mobile-Walter Reed Chiller Study
PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

NAME: Regina Larrabee

FIRM: WRAMC

FAX NUMBER: 202-782-7188

PHONE CODE: 830

FROM: Ed Caulkins

REMARKS:

We need a few additional pieces of information in order to complete the Chiller Study. This information is in regards to the scope change for evaluating several ways to reduce the peak cooling load. Please have the building HVAC technicians fill-in the missing information on the attached tables.

PLEASE CALL ME TO REVIEW

THANKS
ED

WE ARE TRANSMITTING 3 PAGE(S) (INCLUDING COVER PAGE)

If you do not receive all the pages, please call (610) 373-6667, request mail room.

CC: 4130.02
C. SHYDER, ENTECH

**BUILDING 2 – HEATON PAVILLION
AIR HANDLING UNIT SCHEDULE**

PLEASE FILL-IN THE BLANK SPACES AND CORRECT ANY INCONSISTENCIES

FAN UNIT TYPE	SYSTEM NUMBER	NOMINAL CFM	SYSTEM TYPE	DESIGN PREHEAT COIL LAT DEG. F	ACTUAL PREHEAT COIL LAT DEG. F
B	SA1SW1	19,850	100% O.A.	52	60
B	SA4NW1	20,200	100% O.A.	52	
B	SA4NW2	19,025	100% O.A.	52	
B	SA4SW1	22,425	100% O.A.	52	
B	SA4SW2	18,625	100% O.A.	52	
B	SA4SE1	14,700	100% O.A.	52	
B	SA4SE2	18,625	100% O.A.	52	
B	SA4NE1	17,175	100% O.A.	52	
B	SA4NE2	18,950	100% O.A.	52	
B	SA7SW3	19,100	100% O.A.	52	
B	SA7SE1	19,195	100% O.A.	52	
D	SA5NW1	13,600	100% O.A.	52	
D	SA5NW2	13,100	100% O.A.	52	
D	SA5SW1	13,450	100% O.A.	52	
D	SA5SW2	14,250	100% O.A.	52	
D	SA5SE1	14,150	100% O.A.	52	
D	SA5SE2	13,250	100% O.A.	52	
D	SA5NE1	13,250	100% O.A.	52	
D	SA5NE2	13,175	100% O.A.	52	
D	SA6NW1	13,800	100% O.A.	52	
D	SA6NW2	13,300	100% O.A.	52	
D	SA6SW1	13,425	100% O.A.	52	
D	SA6SW2	14,050	100% O.A.	52	
D	SA6SE1	14,100	100% O.A.	52	
D	SA6SE2	13,175	100% O.A.	52	
D	SA6NE1	13,275	100% O.A.	52	
D	SA6NE2	13,400	100% O.A.	52	
D	SA7NW1	14,050	100% O.A.	52	
D	SA7NW2	14,275	100% O.A.	52	
D	SA7SW1	13,925	100% O.A.	52	
D	SA7SW2	14,825	100% O.A.	52	
D	SA7SE1	19,195	100% O.A.	52	
D	SA7SE2	15,275	100% O.A.	52	
D	SA7NE1	14,475	100% O.A.	52	
D	SA7NE2	13,725	100% O.A.	52	
E	SA8NW1	16,910	100% O.A.	52	
E	SA8SW1	19,195	100% O.A.	52	
E	SA8SE1	23,390	100% O.A.	52	
E	SA8NE1	17,175	100% O.A.	52	60
G	SA3SW2	16,475	100% O.A.	75	75
G	SA3SW3	21,450	100% O.A.	75	75
H	SA3SW1	11,625	100% O.A.	75	75
J	SA3SW4	10,550	100% O.A.	55	60

PLEASE HAVE THE BUILDING HVAC TECHNICIAN
FILL - IN THE NUMBER OF AIR HANDLING UNITS
IN EACH BUILDING

BUILDING	NO. OF AHU SYSTEMS
1	32
7	5
11	2
40	20
41	3

ATTACHMENT I

Code Evaluation Excerpts

ANSI/ASHRAE 15-1992

Supersedes ANSI/ASHRAE 15-1989

ASHRAE[®]

STANDARD

AN AMERICAN NATIONAL STANDARD

Safety Code for Mechanical Refrigeration

This standard was approved by the ASHRAE Standards Committee on June 27, 1992; by the ASHRAE Board of Directors on July 2, 1992; and by the American National Standards Institute on October 26, 1992.

ASHRAE Standards are updated on a five-year cycle; the date following the Standard number is the year of ASHRAE Board of Directors approval. The latest copies may be purchased from ASHRAE Publication Sales Department, 1791 Tullie Circle, NE, Atlanta, GA 30329.

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ISSN 1041-2336

**AMERICAN SOCIETY OF HEATING,
REFRIGERATING AND
AIR-CONDITIONING ENGINEERS, INC.**

1791 Tullie Circle, NE • Atlanta, GA 30329

other component located between the compressor and the stop valve on the discharge side. The pressure-relief device shall discharge into the low-pressure side of the system or in accordance with 10.4.8.

11. INSTALLATION REQUIREMENTS

11.1 Foundations. Foundations and supports for condensing units or compressor units shall be of substantial and noncombustible construction. Isolation materials such as rubber are permissible between the foundation and condensing or compressor units.

11.2 Guards. Moving machinery shall be guarded in accordance with approved safety standards.^{13,14}

11.3 Safe Access. Reasonable access, including ladders, platforms, and clear space adequate for inspection and servicing of condensing units, compressors, condensers, and other machinery, shall be provided in accordance with approved safety standards.

11.4 Enclosures. Condensing units or compressor units with enclosures shall be readily accessible for servicing and inspection.

11.5 Water Connections. Water supply and discharge connections shall be made in accordance with approved safety and health standards.

Discharge water lines shall not be directly connected to the waste or sewer systems. The waste or discharge from such equipment shall be through an approved air gap and trap.

11.6 Illumination. Illumination adequate for inspection and servicing of condensing units or compressor units shall be provided.¹⁵

11.7 Electrical Safety. Electrical equipment and wiring shall be installed in accordance with approved safety standards.⁷

11.8 Gas Fuel Equipment. Gas fuel devices and equipment used with refrigerating systems shall be installed in accordance with approved safety standards.^{16,17}

11.9 Air Duct Installation. Air duct systems of air-conditioning equipment for human comfort using mechanical refrigeration shall be installed in accordance with approved safety standards.^{18,19}

Air ducts passing through a machinery room shall be of tight construction and shall have no openings in such rooms.

11.10 Refrigerant Parts in Air Duct. Joints and all refrigerant-containing parts of a refrigerating system located in an air duct carrying conditioned air to and from an occupied space shall be constructed to withstand a temperature of 700°F (353.3°C) without leakage into the airstream.

11.11 Refrigerant Pipe Joint Inspection. Refrigerant pipe joints erected on the premises shall be exposed to view for visual inspection prior to being covered or enclosed.

11.12 Location of Refrigerant Piping.

11.12.1 Refrigerant piping crossing an open space that affords passageway in any building shall be not less than 7.25 ft (2.2 m) above the floor unless against the ceiling of such space as permitted by the local authority.

11.12.2 Passages shall not be obstructed by refrigerant piping. Refrigerant piping shall not be placed in any elevator, dumbwaiter, or other shaft containing a moving object or in any shaft that has openings to living quarters or to main exits. Refrigerant piping shall not be placed in exits, lobbies, or stairways, except that such refrigerant piping may pass across an exit if there are no joints in the section in the exit and provided nonferrous tubing of 1.12 in. (28.6 mm) outside diameter and smaller be contained in a rigid metal pipe.

11.12.3 Refrigerant piping shall not be installed vertically through floors from one story to another except as follows:

- (a) It may be installed from the basement to the first floor, from the top floor to a machinery penthouse or to the roof, or between adjacent floors served by the refrigerating system.
- (b) For the purpose of interconnecting separate pieces of equipment not located as described by 11.12.3(a) and excluding industrial occupancies, the piping may be carried in an approved, rigid and tight, continuous fire-resisting pipe duct or shaft having no openings into floors not served by the refrigerating system, or it may be carried on the outer wall of the building, provided it is not located in an air shaft, closed court, or similar spaces enclosed with the outer walls of the building. The pipe duct or shaft shall be vented to the outside or to the space served by the system.
- (c) Piping of a direct system where refrigerant quantity is limited per the provisions of Section 7 need not be enclosed where it passes through space served by that system.

11.12.4 Refrigerant piping may be installed horizontally in closed floors or in open joist spaces. Piping installed in concrete floors shall be encased in pipe duct. All refrigerant piping shall be properly isolated and supported to prevent damaging vibration or corrosion.

11.13 Machinery Room, General Requirements.

11.13.1 When a refrigerating system is located indoors, a machinery room shall be provided when required by 7.4. Machinery rooms serve for accommodating refrigerating machinery but may also house other mechanical equipment. A machinery room shall be so dimensioned that all parts are easily accessible with adequate space for proper service, maintenance, and operations. There shall be

clear head room of not less than 7.25 ft (2.2 m) below equipment situated over passageways.

11.13.2 Each refrigerating machinery room shall have a tight-fitting door or doors opening outward, self-closing if they open into the building, and adequate in number to ensure freedom for persons to escape in an emergency. There shall be no openings other than doors that will permit passage of escaping refrigerant to other parts of the building.

11.13.2.1 For Group A1 refrigerants, machinery rooms shall be equipped with an oxygen sensor to warn of oxygen levels below 19.5 volume percent since there is insufficient odor warning. The sensor shall be located in an area where refrigerant from a leak is likely to concentrate and shall actuate an alarm and start mechanical ventilation in accordance with 11.13.4.

11.13.2.2 For all other refrigerants, a refrigerant vapor detector shall be located in an area where refrigerant from a leak is likely to concentrate, and an alarm shall be employed. The alarm shall be actuated and the mechanical ventilation started in accordance with 11.13.4 at a value not greater than the corresponding TLV (or toxicity measure consistent therewith).

Exception: For ammonia refer to 11.14(g).

11.13.2.3 Periodic tests of the detector(s), alarm(s), and mechanical ventilating system shall be performed in accordance with manufacturers' recommendations and/or local jurisdictional authority.

11.13.3 Machinery rooms shall be vented to the outdoors utilizing mechanical ventilation in accordance with paragraphs 11.13.4 and 11.13.7.

11.13.4 Mechanical ventilation referred to in paragraph 11.13.3 shall be by one or more power-driven fans capable of exhausting air from the machinery room at least in the amount given in the formula in paragraph 11.13.7. To obtain a reduced airflow for normal ventilation, multiple fans or multispeed fans may be used. The discharge of the air shall be to the outdoors in such a manner as not to cause inconvenience or danger. Provision shall be made for supply air to replace that being exhausted. Openings for supply air shall be positioned to avoid intake of exhaust air. Air supply and exhaust ducts to the machinery room shall serve no other area.

11.13.5 No open flames that use combustion air from the machinery room shall be installed where any refrigerant other than carbon dioxide is used. The use of matches, lighters, halide leak detectors, and similar devices shall not be considered a violation of this paragraph.

11.13.6 Access to the machinery room shall be restricted to authorized personnel.

11.13.7 The minimum mechanical ventilation required to exhaust a potential accumulation of refrigerant due to

leaks or a rupture of the system shall be capable of removing air from the machinery room in the following quantity:

$$Q = 100 \times G^{0.5} \quad (Q = 70 \times G^{0.5})$$

where

Q = the airflow in cubic feet per minute (liters per second),

G = the mass of refrigerant in pounds (kilograms) in the largest system, any part of which is located in the machinery room.

A sufficient part of the mechanical ventilation shall be

- (a) operated, when occupied, at least at 0.5 cfm per square foot (2.54 L/s per square meter) of machinery room area or 20 cfm per person (9.44 L/s) and
- (b) operable, if necessary for operator comfort, at a volume required to maintain a maximum temperature rise of 18°F (10°C) based on all of the heat-producing machinery in the room.

When a refrigerating system is located outdoors more than 20 ft (6.1 m) from any building opening and is enclosed by a penthouse, lean-to, or other open structure, natural ventilation may be employed as an alternative to mechanical ventilation. The requirements for such natural ventilation are as follows:

The free-aperture cross section for the ventilation of the machinery room shall amount to at least

$$F = G^{0.5} \quad (F = 0.138G^{0.5})$$

where

F = the free opening area in square feet (square meters),

G = the mass of refrigerant in pounds (kilograms) in the largest system, any part of which is located in the machinery room.

Locations of the opening shall be with due regard for the relative density of the refrigerant to air.

Note: The minimum ventilation rates prescribed may not prevent temporary accumulations of flammable refrigerants above the LFL in the case of catastrophic leaks or ruptures. The designer may consider the provisions of NFPA 68²¹ for venting of deflagrations in such cases.

11.14 Machinery Room, Special Requirements. In cases specified in Table 2, the machinery room shall meet the following special requirements in addition to those in 11.13:

- (a) There shall be no flame-producing device or continuously operating hot surface over 800°F (427°C) permanently installed in the room.

- (b) Any doors communicating with the building shall be approved, self-closing, tight-fitting fire doors.
- (c) Walls, floor, and ceiling shall be tight and of noncombustible construction. Walls, floor, and ceiling separating the machinery room from other occupied spaces shall be of not less than one-hour fire-resistive construction.
- (d) It shall have an exit door that opens directly to the outer air or through a vestibule equipped with self-closing, tight-fitting doors.
- (e) Exterior openings, if present, shall not be under any fire escape or any open stairway.
- (f) All pipes piercing the interior walls, ceiling, or floor of such rooms shall be tightly sealed to the walls, ceiling, or floor through which they pass.
- (g) Ventilation in ammonia machinery rooms shall be either (1) run continuously or (2) equipped with a vapor detector that will automatically start the ventilation system and actuate an alarm at the lowest practical detection levels not exceeding 4% by volume, or (3) the machinery room shall conform to Class 1, Division 2, of the National Electrical Code.⁷
- (h) When refrigerants of Groups A2, A3, B2 other than ammonia, and B3 are used, the machinery room shall conform to Class 1, Division 2, of the National Electrical Code.⁷
- (i) Remote pilot control of the mechanical equipment in the machinery room shall be provided immediately outside the machinery room solely for the purpose of shutting down the equipment in an emergency. Ventilation fans shall be on a separate circuit and shall have a control switch located immediately outside the machinery room.

11.15 Manual Emergency Discharge of Refrigerant. Some mechanical codes and fire codes require manual emergency discharge or diffusion arrangements for refrigerants. While these provisions are not recommended nor required by this standard, Appendix B has been included to aid in the safe accomplishment of this purpose when required.

11.16 Purge Discharge. The discharge of purge systems shall be governed by the same rules as pressure-relief devices and fusible plugs (see 10.4.8) and may be piped in conjunction with these devices.

Note: The reader is alerted that as of the date of this publication, there may be other pending non-safety regulations governing the release of refrigerants that are outside the scope of this standard.

12. FIELD PRESSURE TESTS

12.1 General.

12.1.1 Every refrigerant-containing part of every system that is erected on the premises, except compressors, condensers, evaporators, safety devices, pressure gages, control mechanisms, and systems that are factory-tested,

shall be tested and proved tight after complete installation and before operation.

The highside and lowside of each system shall be tested and proved tight at not less than the lower of the design pressure or the setting of the pressure-relief device protecting the highside or lowside of the system, respectively, except as noted in 12.1.2.

12.1.2 Systems erected on the premises using Group A1 refrigerant and with copper tubing not exceeding 0.62 in. (16 mm) outside diameter may be tested by means of the refrigerant charged into the system at the saturated vapor pressure of the refrigerant at 68°F (20°C) minimum.

12.2 Test Medium. Oxygen or any combustible gas or combustible mixture of gases shall not be used within the system for testing.

The means used to build up the test pressure shall have either a pressure-limiting device or a pressure-reducing device with a pressure-relief device and a gage on the outlet side. The pressure-relief device shall be set above the test pressure but low enough to prevent permanent deformation of the system components.

12.3 Declaration. A dated declaration of test should be provided for all systems containing 55 lb (25 kg) or more of refrigerant. The declaration should give the name of the refrigerant and the field test pressure applied to the highside and the lowside of the system. The declaration of test should be signed by the installer and, if an inspector is present at the tests, the inspector should also sign the declaration. When requested, copies of this declaration shall be furnished to the authority having jurisdiction.

13. GENERAL REQUIREMENTS

13.1 Signs.

13.1.1 Installation Identification. Each refrigerating system erected on the premises shall be provided with an easily legible permanent sign, securely attached and easily accessible, indicating (a) the name and address of the installer, (b) the kind and initial charge of refrigerant, and (c) the field test pressure applied.

13.1.2 Controls and Piping Identification. Systems containing more than 110 lb (50 kg) of refrigerant shall be provided with durable signs having letters not less than 0.5 in. (12.7 mm) in height, designating

- (a) valves or switches for controlling the refrigerant flow, the ventilation, and the refrigeration compressor(s), and
- (b) the kind of refrigerant or secondary coolant contained in exposed piping outside the machinery room. Piping identification shall be in accord with *ANSI A13.1, Scheme for Identification of Piping Systems*,²² or other industry-recognized guidelines. Legends indicating flow direction, function, temperature, or pressure may also be used in accord with accepted practice.

TABLE 1
Refrigerant^a and Amounts^{b,e}

Quantity of Refrigerant per Occupied Space					
Refrigerant	Name	Chemical Formula	Lb per	Vol. %	g/m ^{3c}
			1000 ft ^{3a}		
<u>Group A1</u>					
R-11	Trichlorofluoromethane	CCl ₃ F	1.6	0.4	25.
R-12	Dichlorodifluoromethane	CCl ₂ F ₂	12	4.0	200.
R-13	Chlorotrifluoromethane	CClF ₃	31	12	500.
R-13B1	Bromotrifluoromethane	CBrF ₃	22	5.7	350.
R-14	Tetrafluoromethane (Carbon tetrafluoride)	CF ₄	25	11	400.
R-22	Chlorodifluoromethane	CHClF ₂	9.4	4.2	150.
R-113	Trichlorotrifluoroethane	CCl ₂ FCClF ₂	1.9	0.4	300.
R-114	Dichlorotetrafluoroethane	CClF ₂ CClF ₂	9.4	2.1	150.
R-115	Chloropentafluoroethane	CClF ₂ CF ₃	38	9.4	600.
R-134a ^f	1,1,1,2-Tetrafluoroethane	CH ₂ FCF ₃	16	6.0	250.
R-C318	Octafluorocyclobutane	C ₄ F ₈	50	9.7	800.
R-400	R-12 and R-114	CCl ₂ F ₂ /C ₂ Cl ₂ F ₄	d	d	d
R-500	R-12/152a (73.8/26.2)	CCl ₂ F ₂ /CH ₃ CHF ₂	16	4.7	250.
R-502	R-22/115 (48.8/51.2)	CHClF ₂ /CClF ₂ CF ₃	19	6.5	300.
R-503	R-23/13 (40.1/59.9)	CHF ₃ /CClF ₃	25	11	400.
R-744	Carbon Dioxide	CO ₂	5.7	5.0	900.
<u>Group A2</u>					
R-142b	1-Chloro-1,1,-Difluoroethane	CH ₃ CClF ₂	3.7	1.4	60.
R-152a	1,1-Difluoroethane	CH ₃ CHF ₂	1.2	0.7	20.
<u>Group A3</u>					
R-170	Ethane	C ₂ H ₆	0.5	0.64	8.
R-290	Propane	C ₃ H ₈	0.5	0.44	8.
R-600	Butane	C ₄ H ₁₀	0.5	0.34	8.
R-600a	2-Methyl propane (Isobutane)	CH(CH ₃) ₃	0.5	0.34	8.
R-1150	Ethene (Ethylene)	C ₂ H ₄	0.4	0.52	6.
R-1270	Propene (Propylene)	C ₃ H ₆	0.4	0.34	6.
<u>Group B1</u>					
R-123 ^f	2,2-Dichloro-1,1,1-Trifluoroethane	CHCl ₂ CF ₃	0.004	0.001	.06
R-764	Sulfur Dioxide	SO ₂	0.016	0.01	0.26
<u>Group B2</u>					
R-40	Chloromethane (Methyl Chloride)	CH ₃ Cl	1.3	1.0	21.
R-611	Methyl Formate	HCOOCH ₃	0.78	0.5	12.
R-717	Ammonia	NH ₃	0.022	0.05	.35

^a The refrigerant safety groups in Table 1 are not part of ASHRAE Standard 15. The classifications shown are a partial list, for the convenience of the user, from ASHRAE Standard 34, which governs in the event of a difference. Because classifications are subject to revision as new data on refrigerants become available, the latest classification by Standard 34 shall be used.

^b To be used only in conjunction with Section 7.

^c To correct for height, H(feet), above sea level, multiply these values by $(1 - 2.42 \times 10^{-6}H)$. To correct for height, h(km), above sea level, multiply these values by $(1 - 7.94 \times 10^{-2}h)$.

^d The quantity of each component shall comply with the limits set in Table 1 for the pure compound, and the total volume % of all components shall not exceed 12 volume % (see Appendix A).

^e The basis of the table amounts is given as follows:

Group A1 - 80% of the cardiac sensitization level for R-11, R-12, R-13B1, R-22, R-113, R-114, R-134a, R-500, and R-502. 100% of the IDLH (21) for R-744. Others are limited by levels where oxygen deprivation begins to occur.

Group A2, A3 - Approximately 20% of LFL.

Group B1 - 100% of IDLH for R-764, and 100% of the measure consistent with the TLV for R-123.

Group B2, B3 - 100% of IDLH or 20% of LFL, whichever is lower.

^f Toxicity classification is based on recommended exposure limits provided by chemical suppliers. This rating is provisional and will be reviewed when toxicological testing is completed.

^g It shall be the responsibility of the owner to establish the refrigerant group for refrigerants used that are not classified in ASHRAE Standard 34.

TABLE 2
System Application Requirements^a

Refrigerant Group	System Probability ^b	Occupancy		
		Institutional	Public Assm., Residential, Commercial	Industrial
A1	High	1	2	3
	Low	4	4	4
A2	High	5	5	3,6,8
	Low	7	7	7
A3	High	9	9	3,6,8
	Low	9	9	7
B1	High	1,6	2,6	3,6
	Low	4	4	4
B2	High	5,6	5,6	3,6,8
	Low	7	7	7
B3	High	9	9	3,6,8
	Low	9	9	7

^a Numbers in the table under "Occupancy" refer to rules in Section 7.4

^b See Section 5.2 for determining the System Probability.

6. REFRIGERANT CLASSIFICATION

6.1 Refrigerants are classified by ASHRAE Standard 34³ into safety groups illustrated in the following matrix:

		SAFETY GROUP	
I N C R E A S I N G	F L A M M A B I L I T Y	Higher Flammability	A3 B3
		Lower Flammability	A2 B2
		No Flame Propagation	A1 B1
		Lower Toxicity	Higher Toxicity
		→ INCREASING TOXICITY	

Single-component refrigerants and azeotropic blends so classified are listed in ASHRAE Standard 34 along with the criteria for classification. An abbreviated listing for the convenience of the user is also shown in Table 1.

6.2 Zeotropic blends are classified by worst case composition of fractionation as follows:

For refrigerants that may change in flammability or toxicity, such as by fractionation of zeotropes, a dual rating, separated by a solidus (/), shall be provided. The first rating shall be the classification of the

refrigerants as formulated. The second rating shall be the classification of the worst case composition of fractionation (see Appendix C for details).

7. REQUIREMENTS FOR REFRIGERANT USE

7.1 System Selection. Refrigerating systems shall be applied in accordance with Table 2 and the requirements of Sections 7.2, 7.3, and 7.4.

To use Table 2, determine the occupancy class per Section 4, refrigerant group per ASHRAE Standard 34 (a partial list is given in Table 1 for the convenience of the user), and type of system per Section 5, then locate the rules that apply. When more than one rule exists, each is a limitation on the other.

7.2 General Restrictions—Nonindustrial Occupancy

7.2.1 Stairways and Exits. No portion of a refrigerating system shall be installed in or on a public stairway, stair landing, entrance, or exit.

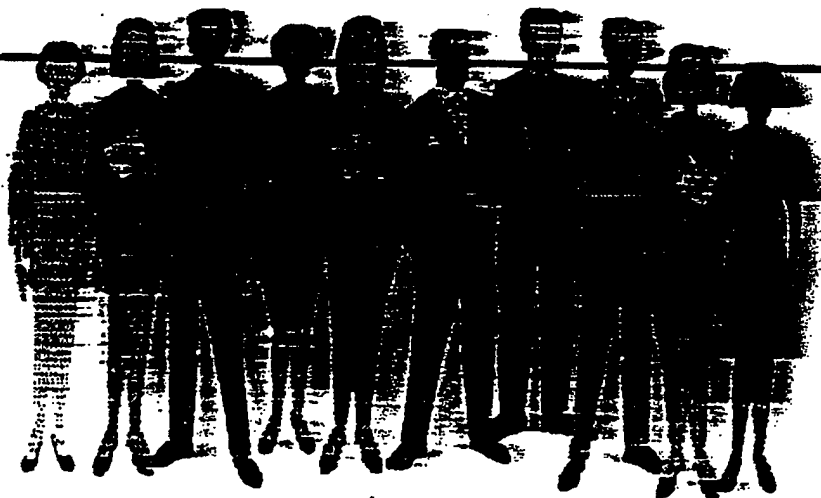
7.2.2 Hallways and Lobbies. No portion of a refrigerating system shall interfere with free passage through public hallways, and a refrigerating system installed in a public hallway or lobby shall be limited to (a) unit systems containing not more than the quantities of Group A1 refrigerants specified in Table 1 or (b) sealed absorption systems as specified in Table 3.

7.2.3 Unventilated Spaces. When the refrigerant-containing parts of a system are located in one or more unventilated spaces, the volume of the smallest, enclosed occupied space, other than a machinery room, shall be used to determine the permissible quantity of refrigerant in the

ATTACHMENT J

Current Operation and Maintenance Costs

WALTER REED ARMY MEDICAL CENTER
DIRECTORATE OF PUBLIC WORKS



Together in Caring

TO: Ed Caulkins
ENTECH

FAX #: 4
OF PAGES: 14
(incl. cover)

COMMENTS:

Here are the O + M costs. Look them over & call me about questions you might have.

Regina

FROM: Regina Larrabee
Energy Cons. Engineer

FAX #: 202-782-8387

REPLY TO
ATTENTION OF:DEPARTMENT OF THE ARMY
WALTER REED ARMY MEDICAL CENTER
WASHINGTON, DC 20307-5001

June 7, 1995

Directorate of Public Works

Mr. Edward Caulkins
Entech Engineering, Inc.
4 South Fourth Street
P.O. Box 32
Reading, PA 19603

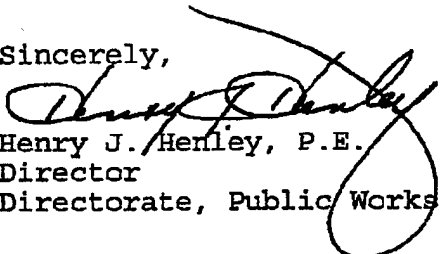
Dear Mr. Caulkins:

Reference telephone conversations between our Ms. Regina Larrabee and yourself on 24 May and 5 June 1995 requesting operating cost information for the Life Cycle Cost study of the chilled water plants at WRAMC enclosed is the information.

Enclosure 1 is a series of computer printouts showing an accounting of in-house work (operations and maintenance) performed on the chillers for FY92-FY94. Enclosure 2 is a listing of contract repair costs for the same for FY92-FY94.

My point of contact in this matter is Regina M. Larrabee at 202-782-0315.

Sincerely,


Henry J. Henley, P.E.
Director
Directorate, Public Works

Enclosures

Bldg 49

DOCUMENT	PH	DESC	AMT
8E063002S	002	A/C PLANT ANNUAL OPERATIONS, BLDG.# 49	2,630.48
3E063022M	001	6201 CHILLER COMPRESSOR, 1 EA.	2,083.25
3E063022M	002	6202 WATER TREATMENT EQUIPMENT, 1 EA.	2,379.35
3E063022M	003	6203 PURGE SYSTEM, 1 EA.	81.33
3E063022M	005	6205 WATER STRAINERS, 2 EA.	27.11
			7,201.52

Operation: Costs FY92

Maintenance FY92

3E001163J	001	E.P.S.	84.28
3E001163J	002	INSTALL FLANGES	159.24
3E001163J	003	ASSIST IN FLANGE INSTALLATION	1,190.46

025293R		FAB/INST COUNTER TOP	224.48
030423R		TRBL SHOOT WIRING SYS	422.72
3E063003S	002	A/C PLANT ANNUAL OPERATIONS, BLDG.# 49	742.96

← Operations FY93

3E063023M	001	6201 CHILLER COMPRESSOR, 1 EA.	6,235.30
3E063023M	002	6202 WATER TREATMENT EQUIPMENT, 1 EA.	2,683.89
3E063023M	003	6203 PURGE SYSTEM, 1 EA.	108.44
3E063023M	004	6204 CHILL WATER PUMP & MOTOR, 2 EA.	867.52
			12,719.29

Maintenance FY93

3E000014M	025	ANNUAL ROOF MAINT AND INSPECT BLDG.49	537.38
3E049024M	007	ANNUAL MAINTENANCE MOTOR CONTROL CENTER	396.30

Maintenance FY94

Encl 1

DOCUMENT	PH	DESC	BLDG 49 AMT
		R,10 EACH 1	
3E060494M	001	6201 CHILLER COMPRES SOR, 1 EA.	3,876.73
3E060494M	002	6202 WATER TREATMENT EQUIPMENT, 1 EA.	216.88
3E060494M	003	6203 PURGE SYSTEM, 1 EA.	379.54
3E060494M	006	6206 CONDENSER PUMP, 1 EA.	54.22
3E060494M	008	6215 AIR COMPRESSOR, 1 EA.	511.40
3E060494M	009	6220 GATE & BALL VAL VES, 20 EA.	243.99
3E060494M	010	6221 CHECK VALVES, 5 EA.	81.33
3E060494M	011	6200 TOWER MAIN, 1 E A.	2,812.06
3E060494M	099	DEFICIENCY PHASES 1 THRU 11	81.33
3E098354R		ELECTRICAL SHOP	237.78
			9,428.94
3E049025M	001	WEEKLY OPERATION INS PECTION	39.63
			39.63
sum			29,389.38

28 rows selected.

Maintenance FY94
(cont'd)

Repair FY94

~~Maint~~ FY95

Operations

SQL> \

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SQL> /

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Enter value for end_date: 30-SEP-92

press return for next page

DOC	PH	FAC	DESC	AMT
11865BE063002S	001	00048	A/C PLANT ANNUAL OPERATIO NS, BLDG.# 48	164698.48
11865BE063003S	001		A/C PLANT ANNUAL OPERATIO NS, BLDG.# 48	963.84
*****				-----
sum				165662.32

Bldg 48
FY 92

11865BE063002S	004	00054	A/C PLANT ANNUAL OPERATIO NS, BLDG.# 54B	321.28
*****				-----
sum				321.28

Bldg 54
FY 92

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DOC	PH	FAC	DESC	AMT
11B65BE063002S	001	00048	A/C PLANT ANNUAL OPERATIO NS, BLDG.# 48	321.28
11B65BE063003S	001		A/C PLANT ANNUAL OPERATIO NS, BLDG.# 48	166262.4

sum

166583.68

11B65BE063003S	004	00054	A/C PLANT ANNUAL OPERATIO NS, BLDG.# 54B	642.56
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sum

642.56Bldg 48
FY93Bldg 54
FY93

3 rows selected.

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Enter value for end_date: 30-SEP-94

DOC	PH	FAC	DESC	AMT
11865BE060484S	001	00048	A/C PLANT ANNUAL OPERATIO NS, BLDG.# 48	167668
11865BE060485S	001		A/C PLANT ANNUAL OPERATIO NS, BLDG.# 48	1445.76
11865BE063003S	001		A/C PLANT ANNUAL OPERATIO NS, BLDG.# 48	1767.04
*****				-----
sum				170880.8

Bldg 48
FY94

11865BE060484S	004	00054	A/C PLANT ANNUAL OPERATIO NS, BLDG.# 54B	80.32
*****				-----

Bldg 54
FY94

DOC	PH	FAC	DESC	AMT
sum				80.32

rows selected.

SQL> spool out

Maintenance

DOCUMENT	PH	DESC	CHILLERS	AMT
BE063012M	001	6201 CHILLER COMPRES SOR, 6 EA.		49,357.63
BE063022M	001	6201 CHILLER COMPRES SOR, 1 EA.		2,083.25
BE063032M	001	6201 CHILLER COMPRES SORS, 3 EA.		9,811.97
FE003852J	001	REPLACE 35 TON CHILL ER, BLDG # 156, FORE ST GLEN.		420.40
FE003852J	002	REPLACE 35 TON CHILL ER, BLDG# 156, FORES T GLEN.		1,189.90
FE003852J	004	REPLACE 35 TON CHILL ER, BLDG# 156, FORES T GLEN.		20,316.00
FE003852J	005	REPLACE 35 TON CHILL ER, BLDG# 156, FORES T GLEN.		2,330.35
				85,509.50

← Bldg 48

← Bldg 49

← Bldg 54

FY 92

other
chillers

BE063013M	001	6201 CHILLER COMPRES SOR, 6 EA.		37,588.01
BE063023M	001	6201 CHILLER COMPRES SOR, 1 EA.		6,235.30
BE063033M	001	6201 CHILLER COMPRES SORS, 3 EA.		11,087.99
FE060573M	003	6115 CHILLER (TUBES) , 1 EA.		54.22

← Bldg 48

← Bldg 49

← Bldg 54

FY 93

other chillers

54,965.52

BE060484M	001	6201 CHILLER COMPRES SOR, 6 EA.		32,451.87
BE060494M	001	6201 CHILLER COMPRES SOR, 1 EA.		3,876.73

← Bldg 48

← Bldg 49

FY 94

DOCUMENT	PH	DESC	CHILLERS AMT
3E060544M	001	6201 CHILLER COMPRES SORS, 3 EA.	9,542.72
3E060544M	012	DEFF MAINT 6201 CHIL LER COMPRESSORS, 3 E A.	54.22

← Bldg 54

← Bldg 54

FY 94

45,925.54

8E060485M	001	6201 CHILLER COMPRES SOR, 6 EA.	759.08
8E060545M	001	6201 CHILLER COMPRES SORS, 3 EA.	189.77

FY 95

948.85

SUM

187,349.41

rows selected.

WRAMC CHILLER REPAIR COSTS
Contracts, FY 92 -FY 94

Prepared: 09 Sep 94

Bldg

DOC REG #	WORK ORDER #	DESCRIPTION	AMOUNT
1238-0600	BE FECHR 1J	Repair chillers	60,912.25
1276-0606	BE 00500 1J	Replace oil cooler on chiller	3,797.14
1284-0600	BE 00016 2J	Repair chiller water pump	2,500.00
1288-0601	BE 00004 2J	Repair chiller water pump	1,800.00
1304-0605		Replace 1" condensate lines	11,008.00
2063-0601	BE 00161 2J	Repair chill water coil	2,500.00
2080-0603	BE 00240 2J	Repair seals on chill water pump	2,500.00
2080-0605	BE 00234 2J	Repair water pumps	2,500.00
2084-0600	BE 00248 2J	Repair chiller	2,800.00
2086-0600	BE 00260 2J	Analyze oil sample from chiller for contamination	600.00
2086-0601	BE 00138 2J	Evaluate gear box	1,500.00
2087-0600	BE 00249 2J	Repalce HEPA filters. Exhaust #6	2,500.00
2087-0601	BE 00241 2J	Replace electric pump bearing	2,500.00
2100-0602	BE 00279 2J	Repair air compressor	2,500.00
2100-0603	BE 00282 2J	Repair chill water pump	6,064.43
2132-0601	FE 00341 2J	Chillers	44,711.00
2203-0603	BE 00459 2J	Repair chill water pump	2,500.00
2209-0600	BE 00426 2J	Service 5 chiller starters	2,000.00
		FY 92 Subtotal	155,192.82

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Encl 2: -

WRAMC CHILLER REPAIR COSTS
Contracts, FY 92 - FY 94

Prepared: 09 Sep 94

DOC REG #	WORK ORDER #	DESCRIPTION	AMOUNT
2323-0609	BE 00248 2J	Replace chiller #3	419,451.00
3095-0601	BE 00138 3J	Rebuild gear box	12,590.00
3083-0602	BE 00267 3J	Repair/calibrate chiller	2,500.00
3083-0603	BE 00253 3J	Calibrate chiller	1,600.00
3202-0600	BE 00582 3J	Repair on chiller	2,500.00
3269-0601	BE 00591 3J	Repair chiller air	2,980.50
		FY 93 Subtotal	441,621.50
4021-0600	BE 00123 4J	Balance air unit	2,000.00
4080-0601	BE 00249 4J	Repair refrigerant leaks	7,952.00
4097-0601	BE 00283 4J	Replace bearing on chiller	3,765.00
4111-0602	BE 00319 4J	Repair chiller #5	30,677.00
4158-0601	BE 00396 4J	Repair chiller #6	200.00
4171-0600	BE 00415 4J	Repair Vane Chiller #6	1,000.00
4172-0601	BE 00369 4J	Test/balance air flow	2,500.00
4181-0600	BE 00439 4J	Repair chiller #4	1,000.00
4193-0600	BE 00405 4J	Repair chiller	7,054.75
4216-0601	BE 00491 4J	#4 chiller take-down	3,453.00
4220-0600	BE 00491 4J	#4 chiller repair	13,000.00
		FY 94 Subtotal	72,601.75
		Grand Total	669,416.07

Bldg

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[illegible]

Chiller	Relamp	Window Repl.	Stamps	HVAC	HVAC	Notes	Est.	Contract Ref.
49/57		12,740,54		8-1	7,38		12,14,54	B-2
4158-0001								
4177-0001								
4193-0000								
4199-0000								
4205-0003								
4216-0000								
4217-0001								
4218-0006								
4219-0007								
4220-0007								
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Chiller	Relamp	Wardlaw Eel	Stream trap	HVAC	HVAC	Water	Coop	Ordinance
49/51		12,740.54		8-1	7.38		12,14.54	Ordinance
		846 248						248
		1825		300				8-2
31870680								12.14.54
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34230602								12.14.54
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ATTACHMENT K

Scope of Work and Scope Change

4/30.02

TSM				ORDER FOR SUPPLIES OR SERVICES (Contractor must submit four copies of invoice)		Form Approved OMB No. 0704-0187 Expires Aug 31, 1992		PAGE 1 OF					
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0187), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send													
1. CONTRACT / PURCH ORDER NO DACA01-94-D-0037		2. DELIVERY ORDER NO. 0003		3. DATE OF ORDER 27 Sep 94		4. REQUISITION / PURCH REQUEST NO.		5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1					
6. ISSUED BY US ARMY ENGINEER DISTRICT, MOBILE PO BOX 2288 MOBILE, AL 36628-0001				7. ADMINISTERED BY (if other than 6) US ARMY ENGINEER DISTRICT, NORFOLK 803 FRONT STREET NORFOLK, VA 23510-1096				8. DELIVERY FOB <input type="checkbox"/> DEST <input type="checkbox"/> OTHER (See Schedule if other)					
9. CONTRACTOR ENTECH ENGINEERING, INC. 500 PENN STREET, PO BOX 32 READING, PA 19603				FACILITY CODE		10. DELIVER TO FOB POINT BY (Date) SEE APP A FOR SCH		11. MARK IF <input checked="" type="checkbox"/> BUS. SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED					
NAME AND ADDRESS						12. DISCOUNT TERMS MA		13. MAIL INVOICES TO SEE BLOCK 14					
14. SHIP TO US ARMY ENGINEER DISTRICT, NORFOLK ATTN: CENAO-EN-MP (MLECIK) 803 FRONT STREET NORFOLK, VA 23510-1096				15. PAYMENT WILL BE MADE BY FINANCE & ACCOUNTING OFFICE US ARMY ENGINEER DISTRICT, NORFOLK 803 FRONT STREET NORFOLK, VA 23510-1096				MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER					
16. TYPE OF ORDER		DELIVERY This delivery order is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.											
PURCHASE		Reference your _____ furnish the following on terms specified											
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.													
NAME OF CONTRACTOR				SIGNATURE		TYPED NAME AND TITLE		DATE SIGNED					
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:													
17. ACCOUNTING AND APPROPRIATION DATA / LOCAL USE 2142050 408-8013 P70000000 S44110 RA4A634D04 DIRECT CITE TOTAL \$124,994.00													
18. ITEM NO.		19. SCHEDULE OF SUPPLIES / SERVICE			20. QUANTITY ORDERED / ACCEPTED		21. UNIT		22. UNIT PRICE		23. AMOUNT		
		DELIVERY ORDER FOR CHILLED WATER STUDY, EEAP PROGRAM, WALTER REED MEDICAL CENTER, DC									\$124,994.00		
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and enclose.				24. UNITED STATES OF AMERICA <i>Edward M. Slana</i> BY: EDWARD M. SLANA				25. TOTAL \$124,994.00		26. DIFFERENCE			
26. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED				27. SHIP NO.		28. D.O. VOUCHER NO.		29. INITIALS		30. AMOUNT VERIFIED CORRECT FOR			
DATE _____ SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE _____				<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. CHECK NUMBER		34. BILL OF LADING NO.			
36. I certify this account is correct and proper for payment DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____				31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		41. S/R ACCOUNT NUMBER		42. S/R VOUCHER NUMBER					
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED		40. TOTAL CONTAINERS							

CONTRACT NO. DACA01-94-D-0037

DELIVERY ORDER NO. 0003

SCOPE OF WORK
FY 94 CHILLER SYSTEM STUDY
FOR
WALTER REED MEDICAL CENTER

TABLE OF CONTENTS

1. BRIEF DESCRIPTION OF WORK
2. GENERAL
3. PROJECT MANAGEMENT
4. SERVICES AND MATERIALS
5. PROJECT DOCUMENTATION
 - 5.1 ECIP Projects
 - 5.2 Non-ECIP Projects
 - 5.3 Non-feasible ECOs
6. DETAILED SCOPE OF WORK
7. WORK TO BE ACCOMPLISHED
 - 7.1 Perform a Limited Site Survey
 - 7.2 Evaluate Selected ECOs
 - 7.3 Combine ECOs into Recommended Projects
 - 7.4 Submittals, Presentations and Reviews

APPENDIXES

- A. DETAILED SCOPE OF WORK
- B. EXECUTIVE SUMMARY GUIDELINE
- C. REQUIRED DD FORM 1391 DATA
- D. ENERGY CONSERVATION OPPORTUNITIES
- E. LIST OF AREAS/FACILITIES TO BE SURVEYED

1. BRIEF DESCRIPTION OF WORK: The Architect Engineer (AE) shall:

1.1 Perform a limited site survey of specific buildings or areas to collect all data required to evaluate the specific ECOs included in this study.

1.2 Evaluate specific ECOs to determine their energy savings potential and economic feasibility.

1.3 Provide project documentation for recommended ECOs as detailed herein.

1.4 Prepare a comprehensive report to document all work performed, the results and all recommendations.

2. GENERAL

2.1 This Study is limited to the evaluation of the specific buildings, systems, or ECOs listed in APPENDIX A, DETAILED SCOPE OF WORK.

2.2 The information and analysis outlined herein are considered to be minimum requirements for adequate performance of this Study.

2.3 For the buildings, systems or ECOs listed in APPENDIX A, DETAILED SCOPE OF WORK,, all methods of energy conservation as relates to chiller systems, and which are reasonable and practical shall be considered, including improvements of operational methods and procedures as well as the physical facilities. All energy conservation opportunities which produce energy or dollar savings shall be documented in this report. Any energy conservation opportunity considered unfeasible shall also be documented in the report with reasons for elimination.

2.4 The "Energy Conservation Investment Program (ECIP) Guidance", described in letter from DAIM-FDF-U, dated 10 Jan 1994 establishes criteria for ECIP projects and shall be used for performing the economic analyses of all ECOs and projects. The Program Life Cycle Cost In Design (LCCID), has been developed for performing life cycle cost calculations in accordance with ECIP guidelines and is referenced in the ECIP Guidance. If any program other than LCCID is proposed for life cycle cost analysis, it must use the mode of calculation specified in the ECIP Guidance. The output must be in the format of the ECIP LCCA summary sheet, and it must be submitted for approval to the Contracting Officer.

2.5 Energy conservation opportunities determined to be technically and economically feasible shall be developed into projects acceptable to installation personnel. This may involve combining similar ECOs into larger packages which will qualify for ECIP, or O&M funding, and determining in coordination with installation personnel the appropriate packaging and implementation approach for all feasible ECOs.

2.5.1 Projects which qualify for ECIP funding shall be identified, separately listed, and prioritized by the Savings to Investment Ratio (SIR).

2.5.2 All feasible Non-ECIP projects shall be ranked in order of highest to lowest SIR.

2.5.3 At some installations Energy Conservation and Management (ECAM) funding will be used instead of ECIP funding. The criteria for each program is the same. The Director of Engineering and Housing will indicate which program is used at this installation. This Scope of Work mentions only ECIP, however, ECAM is also meant.

3. PROJECT MANAGEMENT

3.1 Project Managers. The AE shall designate a project manager to serve as a point of contact and liaison for work required under this contract. Upon award of this contract, the individual shall immediately be designated in writing. The AE's designated project manager shall be approved by the Contracting Officer prior to commencement of work. This designated individual shall be responsible for coordination of work required under this contract. The Contracting Officer will designate a project manager to serve as the Government's point of contact and liaison for all work required under this contract. This individual will be the Government's representative

3.2 Installation Assistance. The Commanding Officer or authorized representative at the installation will designate an individual to assist the AE in obtaining information and establishing contacts necessary to accomplish the work required under this contract. This individual will be the installation representative

3.3 Public Disclosures. The AE shall make no public announcements or disclosures relative to information contained or developed in this contract, except as authorized by the Contracting Officer

3.4 Meetings. Meetings will be scheduled whenever requested by the AE or the Contracting Officer for the resolution of questions or problems encountered in the performance of the work. The AE's project manager and the Government's representative shall be required to attend and participate in all meetings pertinent to the work required under this contract as directed by the Contracting Officer. These meetings, if necessary, are in addition to the presentation and review conferences.

3.5 Site Visits, Inspections, and Investigations. The AE shall visit and inspect/investigate the site of the project as necessary and required during the preparation and accomplishment of the work

3.6 Records

3.6.1 The AE shall provide a record of all significant conferences, meetings, discussions, verbal directions, telephone conversations, etc., with Government representative(s) relative to this contract in which the AE and/or designated representative(s) thereof participated. These records shall be dated and shall identify the contract number, and modification number if applicable, participating personnel, subject discussed and conclusions reached. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the records.

3.6.2 The AE shall provide a record of requests for and/or receipt of Government furnished material, data, documents, information, etc., which if not furnished in a timely manner, would significantly impair the normal progression of the work under this contract. The records shall be dated and shall identify the contract number and modification number, if applicable. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the record of request or receipt of material

3.7 Interviews. The AE and the Government's representative shall conduct entry and exit interviews with the Director of Public Works before starting work at the installation and after completion of the field work. The Government's representative shall schedule the interviews at least one week in advance

3.7.1 Entry. The entry interview shall describe the intended procedures for the survey and shall be conducted prior to commencing work at the facility. As a minimum, the interview shall cover the following points:

- ♦ Schedules
- ♦ Names of energy analysts who will be conducting the site survey
- ♦ Proposed working hours
- ♦ Support requirements from the Director of Public Works

3.7.2 Exit. The exit interview shall briefly describe the items surveyed and probable areas of energy conservation. The interview shall also solicit input and advice from the Director of Public Works.

4. SERVICES AND MATERIALS. All services, materials (except those specifically enumerated to be furnished by the Government), labor, supervision and travel necessary to perform the work and render the data required under this contract are included in the lump sum price of the contract.

5. PROJECT DOCUMENTATION. All energy conservation opportunities which the AE has considered shall be included in one of the following categories and presented in the report as such.

5.1 ECIP Projects. To qualify as an ECIP project, an ECO, or several ECOs which have been combined, must have a construction cost estimate greater than \$300,000, a Savings to Investment Ratio greater than 1.25 and a simple playback period of less than ten years. For ECAM projects, the \$300,000 limitation may not apply in such cases, the AE shall check with the installation for guidance. The overall project and each discrete part of the project shall have an SIR greater than

1.25. All projects meeting the above criteria shall be arranged as specified in paragraph 2.6.1 and shall be provided with programming documentation. Programming documentation shall consist of a DD Form 1391, life cycle cost analysis (LCCA) summary sheet(s) (with necessary backup data to verify the numbers presented), and a Project Development Brochure(PDB). A life cycle cost analysis summary sheet shall be developed for each ECO and for the overall project when more than one ECO are combined. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs

5.2 Non-ECIP Projects. Projects which do not meet ECIP criteria with regard to cost estimate or pay back period, but which have a SIR greater than 1.25 shall be documented. Projects or ECOs in this category shall be arranged as specified in paragraph 2.5.2 and shall be provided with the following documentation: the life cycle cost analysis (LCCA) summary sheet completely filled out, a description of the work to be accomplished, backup data for the LCCA, i.e., energy savings calculations and cost estimate(s), and the simple pay back period. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs. In addition these projects shall have the necessary documentation prepared, as required by the Government's representative, for one of the following categories:

5.2.1. O & M Energy Projects: An O&M Energy project is one that results in needed maintenance or repair to an existing facility, or replaces a failed or failing existing facility, and also results in energy savings. The criteria are similar to the criteria for ECIP projects, i.e., \$300,000 construction cost, $SIR \geq 1.25$, and simple pay back period of less than ten years. In addition, if the project would replace a system or equipment that is considered failed or failing' due solely to obsolete technology or inefficiency, the equipment to be replaced must have been in use for at least three years; and the simple pay back period must be three years or less.

5.2.2. Low Cost/No Cost Projects. These are projects which the Director of Public Works (DPW) can perform using his resources. Documentation shall be as required by the DPW.

5.3 Non-feasible ECOs. All ECOs which the AE has considered but which are not feasible, shall be documented in the report with reasons and justifications showing why they were rejected.

6. DETAILED SCOPE OF WORK. The Detailed Scope of Work is contained in APPENDIX A, DETAILED SCOPE OF WORK,.

7. WORK TO BE ACCOMPLISHED.

7.1 Perform A Limited site survey. The AE shall obtain all necessary data to evaluate the ECOs or projects by conducting a site survey. The AE shall document his site survey on forms developed for the survey, or standard forms, and submit these completed forms as part of the report.

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his site survey on forms developed for the survey, or standard forms, and submit these completed forms as part of the report.

7.2 Evaluate Selected ECOs. The AE shall analyze the ECOs listed in APPENDIX A, DETAILED SCOPE OF WORK. These ECOs shall be analyzed in detail to determine their feasibility. Savings to Investment Ratios (SIRS) shall be determined using current ECIP guidance. The AE shall provide all data and calculations needed to support the recommended ECO. All assumptions and engineering equations shall be clearly stated. Calculations shall be prepared showing how all numbers in the CEO were figured. Calculations shall be an orderly step by step progression from the first assumption to the final number. Descriptions of the products, manufacturers catalog cuts, pertinent drawings and sketches shall also be included. Construction cost estimates shall be provided and shall break out the costs associated with rehab work (architectural, electrical, mechanical) where applicable. A life cycle cost analysis summary sheet shall be prepared for each ECO and included as part of the supporting data

7.3 Combine ECOs Into Recommended Projects. During the Interim Review Conference, as outlined in paragraph 7.4.1, the AE will be advised of the DPW's preferred packaging of recommended ECOs into projects for implementation. Some projects may be a combination of several ECOs, and others may contain only one. These projects will be evaluated and arranged as outlined in paragraphs 5.1, 5.2, and 5.3. Energy savings calculations shall take into account the synergistic effects of multiple ECOs within a project and the effects of one project upon another. The results of this effort will be reported in the Final Submittal per par 7.4.2.

7.4 Submittals, Presentations and Reviews. The work accomplished shall be fully documented by a comprehensive report. The report shall have a table of contents and shall be indexed. Tabs and dividers shall clearly and distinctly divide sections, subsections, and appendices. All pages shall be numbered. Names of the person? primarily responsible for the project shall be included. The AE shall give a formal presentation of the interim submittal to installation, command, and other Government personnel. Slides or view graphs showing the results of the study to date shall be used during the presentation. During the presentation, the personnel in attendance shall be given ample opportunity to ask questions and discuss any changes deemed necessary to the study. A review conference will be conducted the same day, following the presentation. Each comment presented at the review conference will be discussed and resolved or action items assigned. It is anticipated that the presentation and review conference will require approximately one working day. The presentation and review conference will be at the installation on the date agreeable to the Director of Public Works, the AE and the Government's representative. The Contracting Officer may require a re-submittal of any document(s), if such document(s) are not approved because they are determined by the Contracting Officer to be inadequate for the intended purpose.

ECOs. The report shall indicate the work which has been accomplished to date, illustrate the methods and justifications of the approaches taken and contain a plan of the work remaining to complete the study. Calculations showing energy and dollar savings, SIR, and simple pay back period of all the ECOs shall be included. The results of the ECO analyses shall be summarized by lists as follows:

7.4.1.a. All ECOs eliminated from consideration shall be grouped into one listing with reasons for their elimination as discussed in par 5.3.

7.4.1.b. All ECOs which were analyzed shall be grouped into two listings, recommended and non-recommended, each arranged in order of descending SIR. These lists may be subdivided by building or areas appropriate for the study. The AE shall submit the Scope of Work and any modifications to the Scope of Work as an appendix to the report. A narrative summary describing the work and results to date shall be a part of this submittal. At the Interim Submittal and Review Conference, the Government's and AE's representatives shall coordinate with the Director of Public Works to provide the AE with direction for packaging or combining ECOs for programming purposes and also indicate the fiscal year for which the programming or implementation documentation shall be prepared. The survey forms completed during this Study shall be submitted with this report. The survey forms only may be submitted in final form with this submittal. They should be clearly marked at the time of submission that they are to be retained. They shall be bound in a standard three ring binder which will allow repeated disassembly and re-assembly of the material contained within.

7.4.2 Final Submittal. The AE shall prepare and submit the final report when all sections of the report are 100% complete and all comments from the interim submittal have been resolved. The AE shall submit the Scope of Work for the study and any modifications to the Scope of Work as an appendix to the submittal. The report shall contain a narrative summary of conclusions and recommendations, together with all raw and supporting data, methods used, and sources of information. The report shall integrate all aspects of the study. The recommended projects, as determined in accordance with paragraph 5, shall be presented in order of priority by SIR. The lists of ECOs specified in paragraph 7.4.1 shall be included for continuity. The final report and all appendices shall be bound in standard three ring binders which will allow repeated disassembly and re-assembly. The final report shall be arranged to include:

7.4.2.a. An Executive Summary to give a brief overview of what was accomplished and the results of this study using graphs, tables and charts as much as possible (See APPENDIX B, EXECUTIVE SUMMARY GUIDELINE, for minimum requirements).

7.4.2.b. The narrative report describing the problem to be studied, the approach to be used, and the results of this study.

7.4.2.c. Documentation for the recommended projects.

1) Backup information as specified in par 5.1.

7.4.2.d. Appendices to include as a minimum:

- 1) Energy cost development and backup data
- 2) Detailed calculations
- 3) Cost estimates
- 4) Computer printouts (where applicable)
- 5) Scope of Work

APPENDIX A
DETAILED SCOPE OF WORK,
FY 94 CHILLER SYSTEM STUDY
WALTER REED MEDICAL CENTER, WASHINGTON D.C.

1. All facilities to be investigated in this Study are located at WALTER REED MEDICAL CENTER, WASHINGTON D.C..
2. The General Scope of Work outlines requirements for the Study and the report; and the detailed scope of work lists the specific areas to be Studyed. If any conflicts arise between the General and the Detailed scopes of work, the Detailed Scope of Work shall govern.
3. The work consists of identifying and evaluating energy conservation opportunities (ECOs) for chiller systems in specific areas or facilities. A list of suggested ECOs is provided in APPENDIX D, CHILLER SYSTEM ECOS,. The ECOs in APPENDIX D, are to be evaluated as applicable for the area or facilities listed in APPENDIX E, LIST OF AREAS/FACILITIES TO BE STUDYED,.
4. Completion and Payment Schedule: The following schedule shall be used as a guide in approving payments on this contract. The Contracting Officer's Representative (COR) will be Mr. Bryant Wilkins at the Norfolk District, COE

Interim Submittal	150 Calendar Days after Notice to Proceed
Pre-Final Submittal	250 Calendar Days after Notice to Proceed
Final Submittal	300 Calendar Days after Notice to Proceed

MILESTONE	PERCENT OF CONTRACT AMOUNT AUTHORIZED FOR PAYMENT
Entry Interview	10
Completion of Field Work	25
Receipt of Interim Submittal	75
Completion of Interim Presentation & Review	85
Receipt of Final Submittal	100

5. The installation representative for this contract will be Ms. Regina Larrabee, Energy Program Coordinator, Directorate of Public Works , WALTER REED MEDICAL CENTER. (202) 576-0315, FAX (202) 576-8383.
6. Government Furnished Information: The following documents are available for the use of the AE.
 - ◆ As built drawings (as available) of buildings/systems
 - ◆ Energy Conservation Investment Program (ECIP) Guidance, dated 10 Jan 1994
 - ◆ ETL 11103282, Energy Conservation

- WR
- ♦ TM 58002, Cost Estimates, Military Construction
 - ♦ AR 41515, 1 Jan 84, Military Construction, Army (MCA) Program Development
 - ♦ Architectural and Engineering Instructions, Design Criteria; Chapter 13, Air Conditioning, Dehumidification, Evaporative Cooling, Heating, Mechanical Ventilation and Refrigeration, 9 December 1991
 - ♦ The latest MCP Index

7. Direct Distribution of Submittals: The AE shall make direct distribution of correspondence, minutes, report submittals, and responses to comments as indicated by the following schedule:

AGENCY	CORRESPONDENCE			
	EXECUTIVE SUMMARIES			
	REPORTS			
	FIELD NOTES			
Commander Walter Reed Medical Center ATTN: HSHL-PW (Ms. Larrabee) DPW/Energy Engineer Washington D.C. 20307	1	3	3	1*
Commander US Army Medical Command (Provisional) ATTN: MCFA-E (Mr. Robert Jay) 2050 Worth Road Fort Sam Houston, TX 78234-6000	-	1	1	-
Commander U. S. Army Engineer District, Norfolk ATTN: CENAO-EN-MP (Mr Mlecik) 803 Front Street Norfolk, VA 23510	1	3	3	1*
Commander USAED, North Atlantic ATTN: CENAD-EN-MM (Mr Wong) 90 Church Street New York, NY 10007	-	1	1	-

Commander
 USAED, Mobile
 ATTN: CESAMENCM (Battaglia)
 PO Box 2288; Mobile, AL 36628

1 1 1 -

Commander
 US Army Corps of Engineers
 ATTN: CEMPET (Mr Gentil)
 20 Massachusetts Avenue NW
 Washington, DC, 20314 1000

- 1 - -

Commander
 US Army Logistics Evaluation Agency
 ATTN: LOEAPL (Mr Keath)
 New Cumberland Army Depot
 New Cumberland, PA, 17070 5007

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* Field Notes submitted in final form at interim submittal.

Progress reports will be prepared on a monthly basis to highlight the significant events of the prior month. This is especially true of actions completed, problems discovered, schedule changes and ECO developments. The progress reports will accompany monthly billings and will form the basis for progress meetings.

8. A computer program titled Life Cycle Costing in Design (LCCID) is available from the BLAST Support Office in Urbana, Illinois for a nominal fee. This computer program can be used for performing the economic calculations for ECIP and non-ECIP ECOs. The AE is encouraged to obtain and use this computer program. The BLAST Support Office can be contacted at 144 Mechanical Engineering Building, 1206 West Green Street, Urbana, Illinois 61801. The telephone number is (217) 3333977 or (800) 8425278.

9. METHOD

9.1 INVESTIGATION OF EXISTING CONDITIONS

The Contractor will collect information on the existing chilled water systems and operations so as to have a reasonable understanding of operations, costs, energy use, problems, limitations, future needs, etc. This will be accomplished in the following steps.

Data Gathering. The Contractor will collect available data that will assist in energy use evaluations and recommendations. A partial list of data that will be sought are:

Energy bills and summaries
 Prior studies and energy reports (if any)
 Schedules

- Chilled water piping drawings
- Floor plans or building data
- Site plans.
- Maintenance records
- Copies of other drawings needed
- Proposals from vendors or contractors
- Cooling load profiles
- Chilled water plant operator logs
- Temperature histories
- Energy management system profile
- Others

Site Visits, Inspections. A team of The Contractor's engineers (normally two or three people) will visit the applicable facilities. The inspection will cover areas shown in the study. Operators may be briefly interviewed for about the operation of individual areas and systems.

Nameplate data will be collected as well as observations of arrangements, physical condition and effectiveness. The following measurements will be normally collected:

- Temperature levels at supply and return points
- Electrical loads, voltage, amperage, kVA, and P.F.
- Chilled water flow rates
- Schedules (where possible)
- Dimensions

Photographs will be taken of key areas for later reference.

ANALYSIS OF SYSTEMS

The Contractor will utilize standard methods of engineering calculations to understand current energy consumption in such detail as to permit identification of further improvement options.

Heat Gain Calculations. A calculation of each facility's theoretical energy use due to building heat gain will be made using The Contractor's computer models. Note that the internal formulas are based upon ASHRAE recommendations. Heat gain calculations are a significant product of this analysis since they break each building down by peak load and usage.

The combined estimates of chilled water use will be analyzed against actual energy usage to identify trends, losses, efficiencies, and other important correlations. By taking this approach, actual chilled water consumption and the potential for future cost reductions can be more clearly identified.

The analysis will also consider chilled water loads that are expected to increase or reduce in the future due to changes in facility use, change of mission, new additions, etc.

Chilled Water Distribution Losses. Based upon the known arrangement and condition of the chilled water lines, a calculation will be made showing the average rate of distribution losses and the overall costs associated with normal operation.

Chiller System Losses. Together with the existing chiller efficiency tests, a calculation will be made showing total chiller system losses including cooling tower, partial load efficiencies, and other losses as may apply.

Other Miscellaneous Uses and Losses. The study will also consider costs and energy usage related to other chilled water usage not discussed above. Each miscellaneous use may include leaks, overcooling, etc.

Regression Analysis. A calculation will be made using historical energy consumption, weather data, occupancy, and other variables for potential mathematical correlation. Such findings will be used to support other calculations.

Balance of Energy Supply with Users/Losses. By combining all calculations made in this study, an attempt will be made to match actual chilled water production with calculated energy use. By balancing these factors, a model of chilled water use can be made for the total base.

Utility Rate Analysis. A separate calculation will be performed for each type of energy conserved - gas, oil, and electric. The incremental cost of fuel will be used for all energy savings options.

The current rate structure that applies to electrical use will be checked. Using a computerized program developed by The Contractor, all bills for the past two years will be checked for accuracy. This program will also determine the incremental cost of each kW of demand and kWh of usage for calculations of ECIs and other reports. A copy of the applicable analysis, together with sample bills and published tariffs will be included in the report.

Check Regulatory Requirements. Where applicable, a check of all regulatory bodies affecting CFC emissions will be made. Any recommendations that are subsequently made, must be made in compliance with such requirements.

ENERGY CONSERVATION OPPORTUNITY INVESTIGATIONS

The Contractor will investigate all reasonable options of saving energy and energy-related costs in the operation of the chilled water production and distribution systems. The approach used to identify each option is briefly described below.

Existing Conditions. This section describes the nature of the existing operating system, its energy use, costs, advantages and disadvantages. Data is usually transferred to this section from the calculations.

Energy Conservation Opportunities. This section describes improvement ideas that are different from the existing conditions. They may describe a capital projects, modifications, or O&M procedures. The resulting improvements are described, energy costs, quantities and arrangements are briefly noted. Sufficient conceptual studies will be executed to determine feasibility, generate anticipated operational data and estimating values.

Construction Cost Estimate. A feasibility cost estimate in the format prescribed will be performed. The estimate breakdown will be included in the report showing known quantities and costs. Allowances for indirect costs and contingencies are included.

Annual Savings. The report will show the annual savings in energy, quantities, demand, costs, and BTU's. As the report is written, these savings are merely the difference between existing and proposed.

Discussion. This section of the report describes a number of relevant factors including payback period, impact on labor or non-energy costs, O&M concerns, appearances, comfort, life extension, etc. The intent of this section is to address normal impacts or uncertainties of various improvement ideas.

REPORT PREPARATION PHASE

The Contractor will prepare an Energy Analysis report which will fully document the steps previously described. The report will be prepared as follows.

Executive Summary - Section 1. The outline of the executive section is shown on Appendix B.

Methodology - Section 2. This part of the report describes the approach, sequence, assumptions, calculations methods, computer programs, sample outputs, etc. that were used for the study.

Facility Description - Section 3. The report will briefly discuss the buildings and systems covered by the study. It will show floor plans, layout flow diagrams, facility age and condition, major equipment characteristics by system, hours of operation, and concerns expressed by occupants and managers.

Energy Use and Costs - Section 4. The report will describe individual and combined energy consumption for the past two years. The report will describe rate structures, incremental cost calculations, trends, and analysis of use by source. This section critically establishes baseline use of energy for later improvement possibilities.

ECOs Recommended - Section 5. This section describes in detail each of the Energy Conservation Opportunities (ECOs) that are recommended for adoption and funding. The approach to each ECO write-up is described in Section 5, Project Documentation

ECOs Not Recommended - Section 6. The report will also show ECOs that were investigated but not recommended for adoption due to economics, conflicts, with other ECOs or concerns of operations.

Discussion - Section 7. This part of the report will cover interesting findings of the study not related to other sections of the report. It may include recommendations for non-energy problems, further studies, O&M procedures, training, etc.

Attachments. As part of the report, there will be enclosures for photos, backup calculations, referenced materials such as rate tariffs, codes, etc.

Applications and Funding Requests. As part of this study, applications for project funding will be made in accordance with Section 5, Project Documentation and directions from local authorized persons. The exact level of funding and funding program (expected to be ECIP), will be at the direction of the facility manager.

Suggested Implementation Schedules. The report will also contain a suggested timetable for implementing various projects or programs. This recommendation will be made in consultation with various facility managers.

Operation and Maintenance Instructions. Where appropriate, the study will recommend the formation of procedures or changes to processes that relate to improved energy usage and costs through Operation and Maintenance.

APPENDIX B
EXECUTIVE SUMMARY GUIDELINE,

1. Introduction:

2. Building Data (types, number of similar buildings, sizes etc.)

3. Present Energy Consumption of Buildings or Systems Studied.

- ◆ Total Annual Energy Used.
- ◆ Source Energy Consumption.
 - Electricity KWH, Dollars, BTU
 - Fuel Oil GALS, Dollars, BTU
 - Natural Gas THERMS, Dollars, BTU
 - Propane GALS, Dollars, BTU
 - Other QTY, Dollars, BTU

4. Reevaluated Projects Results.

5. Energy Conservation Analysis.

- ◆ ECOs Investigated.
- ◆ ECOs Recommended.
- ◆ ECOs Rejected. (Provide economics or reasons)
- ◆ ECIP Projects Developed. (Provide list)*
- ◆ Non-ECIP Projects Developed. (Provide list)*
- ◆ Operational or Policy Change Recommendations.
- ◆

* Include the following data from the life cycle cost analysis summary sheet; the cost (construction plus SIOH), the annual energy savings (type and amount), the annual dollar savings, the SIR, the simple pay back period and the analysis date.

6. Energy and Cost Savings.

- ◆ Total Potential Energy and Cost Savings.
- ◆ Percentage of Energy Conserved.
- ◆ Energy Use and Cost Before and After the Energy Conservation opportunities are Implemented.

APPENDIX C,
REQUIRED FORM DD1391 DATA,

To facilitate ECIP project approval, the following supplemental data shall be provided:

1. In title block clearly identify projects as "ECIP."
2. Complete description of each item of work to be accomplished including quantity, square footage, etc.
3. A comprehensive list of buildings, zones, or areas including building numbers, square foot floor area, designated temporary or permanent, and usage (administration, patient treatment, etc.).
4. List references, and assumptions, and provide calculations to support dollar and energy savings, and indicate any added costs.
 - 4.1. If a specific building, zone, or area is used for sample calculations, identify building, zone or area, category, orientation, square footage, floor area, window and wall area for each exposure.
 - 4.2. Identify weather data source.
 - 4.3. Identify infiltration assumptions before and after improvements
 - 4.4. Include source of expertise and demonstrate savings claimed. Identify any special or critical environmental conditions such as pressure relationships, exhaust or outside air quantities, temperatures, humidity, etc.
5. Lighting retrofit projects must identify number and type of fixtures, and wattage of each fixture being deleted and installed. New lighting shall be only of the level to meet current criteria. Lamp changes in existing fixtures is not considered an ECIP type project.
6. An ECIP life cycle cost analysis summary sheet as shown in the ECIP Guidance shall be provided for the complete project and for each discrete part included in the project. The SIR is applicable to all segments of the project. Supporting documentation consisting of basic engineering and economic calculations showing how savings were determined shall be included.
7. The DD Form 1391 face sheet shall include, for the complete project, the annual dollar and MBTU savings, SIR, simple amortization period and a statement attesting that all buildings and retrofit actions will be in active use throughout the amortization period

8. The calendar year in which the cost was calculated shall be clearly shown on the DD Form 1391.

9. For each temporary building included in a project, separate documentation is required showing (1) a minimum 10 year continuing need, based on the installation's annual real property utilization survey, for active building retention after retrofit, (2) the specific retrofit action applicable and (3) an economic analysis supporting the specific retrofit.

10. Non-appropriated funded facilities will not be included in an ECIP project without an accompanying statement certifying that utility costs are not reimbursable.

11. Any requirements required by ECIP guidance dated 10 Jan 1994 and any revisions thereto. Note that non-escalated costs and savings are to be used in the economic analyses.

12. The five digit category number for all ECIP projects except for Family Housing is 80000. The category code number for Family Housing projects is 71100.

APPENDIX D CHILLER SYSTEM ECOS

Energy Savings Opportunities include but are not necessarily limited to:

Replace older chillers with new equipment including the following types:

- ◆ - Centrifugal
- ◆ - Absorption (single and double effect)
- ◆ - Direct fired
- ◆ - Steam turbine driven

Cooling tower optimization

Variable speed chilled water pumps

Ice or chilled water thermal storage systems

New chilled water plant

Partial new chilled water plant

Expand chilled water distribution and return systems

High efficiency motors

APPENDIX E
LIST OF AREAS/FACILITIES TO BE STUDYED,

This study will include a thorough understanding of recommended improvements to the following:

Central chilled water plant (Building 48) including all chillers, cooling towers, pumps auxiliaries, electrical supply and controls, internal chilled water piping, and physical structures.

Chilled water distribution system from the central plant to other buildings served by the chilled water plant. The system will include piping, insulation, valves, controls, and associated structures. Of special interest will be equipment life, condition, and capacity.

Facilities which currently or will potentially utilize chilled water including peak chilling demand, overall yearly use, and types of equipment served. There will be no attempt made to evaluate individual building performances or improvements but rather contributions to overall chilled water system energy use.

The electric distribution system as it may relate to the chilled water system.

Supplementary local chilled water plants, whether currently operating or not, including potential alternative modes of operation.

Additional Required Facilities

Date

ROUTING AND TRANSMITTAL SLIP

TO: (Name, office symbol, room number, building, Agency/Post)		Initials	Date
1. TO THE CONTRACTOR		ENTECH ENGINEERING INC.	
2. Project/Contract			
3. AUG 10 1995			
4. CC:			
5. Route:			
Action	File	Note and Return	
Approval	For Clearance	Per Conversation	
As Requested	For Correction	Prepare Reply	
Circulate	For Your Information	See Me	
Comment	Investigate	Signature	
Coordination	Justify		

REMARKS

PLEASE SIGN SF FORM 30, DATE AND RETURN TO:

US ARMY ENGINEER DISTRICT, MOBILE
 ATTN: CESAM-EN-MN/Y. WEEKS
 P.O. BOX 2288
 MOBILE, ALABAMA 36628-0001

THIS IS THE ORIGINAL DOCUMENT AND WILL HAVE TO BE
 SIGNED BY YOU FIRST AND THEN RETURNED TO US FOR THE
 CONTRACTING OFFICER TO SIGN.

YOUR FILE COPY WILL BE SENT BACK TO YOU WITH ALL THE
 NECESSARY DOCUMENTS. THE EFFECTIVE DATE WILL BE
 TYPED IN.

PLEASE EXPEDITE

DO NOT use this form as a RECORD of approvals, concurrences, disposals,
 clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)	Room No.—Bldg. NEW ANNEX
CESAM-EN-MN/Y. WEEKS	Phone No. (334) 441-6394

5041-102

GPO : 1990 O - 276-978

OPTIONAL FORM 41 (Rev. 7-76)
 Prescribed by GSA
 FPMR (41 CFR) 101-11.206

YDWA AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES
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2. AMENDMENT/MODIFICATION NO. DACA01-94-D-0037-0003-01	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE		

MOBILE DISTRICT, CORPS OF ENGINEERS P.O. BOX 2288 MOBILE, ALABAMA 36628-0001 PHONE: (334) 441-5741	
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ENTECH ENGINEERING, INC. 500 PENN STREET P.O. BOX 32 READING, PA 19603		(v)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. DACA01-94-D-0037-0003
			10B. DATED (SEE ITEM 13) 27 SEP 94
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
2152050 08-8013 P70000000 S44110 RA5C635D051B400 DIRECT CITE TOTAL: \$9,965.00 INCREASE

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(v)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Chilled Water Study, EEAP Program , Walter Reed Medical Center, Washington, D.C.

CHANGE IN DELIVERY ORDER AMOUNT: \$9,965.00 Increase

TOTAL DELIVERY ORDER AMOUNT (Including this Modification): \$134,959.00

SEE STATEMENT OF REVISIONS

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15. NAME AND TITLE OF SIGNER (Type or print) ENTECH ENGINEERING		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) GENE L. CURTIS	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED

INSTRUCTIONS

Instructions for items other than those that are self-explanatory, are as follows:

(a) Item 1 (Contract ID Code). Insert the contract type identification code that appears in the title block of the contract being modified.

(b) Item 3 (Effective date).

(1) For a solicitation amendment, change order, or administrative change, the effective date shall be the issue date of the amendment, change order, or administrative change.

(2) For a supplemental agreement, the effective date shall be the date agreed to by the contracting parties.

(3) For a modification issued as an initial or confirming notice of termination for the convenience of the Government, the effective date and the modification number of the confirming notice shall be the same as the effective date and modification number of the initial notice.

(4) For a modification converting a termination for default to a termination for the convenience of the Government, the effective date shall be the same as the effective date of the termination for default.

(5) For a modification confirming the contracting officer's determination of the amount due in settlement of a contract termination, the effective date shall be the same as the effective date of the initial decision.

(c) Item 6 (Issued By). Insert the name and address of the issuing office. If applicable, insert the appropriate issuing office code in the code block.

(d) Item 8 (Name and Address of Contractor). For modifications to a contract or order, enter the contractor's name, address, and code as shown in the original contract or order, unless changed by this or a previous modification.

(e) Items 9, (Amendment of Solicitation No.—Dated), and 10, (Modification of Contract/Order No.—Dated). Check the appropriate box and in the corresponding blanks insert the number and date of the original solicitation, contract, or order.

(f) Item 12 (Accounting and Appropriation Data). When appropriate, indicate the impact of the modification on each affected accounting classification by inserting one of the following entries:

(1) Accounting classification
Net increase \$

(2) Accounting classification
Net decrease \$

NOTE: If there are changes to multiple accounting classifications that cannot be placed in block 12, insert an asterisk and the words "See continuation sheet".

(g) Item 13. Check the appropriate box to indicate the type of modification. Insert in the corresponding blank the authority under which the modification is issued. Check whether or not contractor must sign this document. (See FAR 43.103.)

(h) Item 14 (Description of Amendment/Modification).

(1) Organize amendments or modifications under the appropriate Uniform Contract Format (UCF) section headings from the applicable solicitation or contract. The UCF table of contents, however, shall not be set forth in this document.

(2) Indicate the impact of the modification on the overall total contract price by inserting one of the following entries:

(i) Total contract price increased by \$

(ii) Total contract price decreased by \$

(iii) Total contract price unchanged.

(3) State reason for modification.

(4) When removing, reinstating, or adding funds, identify the contract items and accounting classifications.

(5) When the SF 30 is used to reflect a determination by the contracting officer of the amount due in settlement of a contract terminated for the convenience of the Government, the entry in Item 14 of the modification may be limited to —

(i) A reference to the letter determination; and

(ii) A statement of the net amount determined to be due in settlement of the contract.

(6) Include subject matter or short title of solicitation/contract where feasible.

(i) Item 16B. The contracting officer's signature is not required on solicitation amendments. The contracting officer's signature is normally affixed last on supplemental agreements.

Principals:

Daniel J. Castellani, PE

Thomas M. McMahon, PE

William M. McMahon Jr., PE



April 12, 1995

Mr. Stephen J. Mlecik, P.E.
Commander, U.S. Army Engineer
District, Norfolk
Attn: CENAO-EN-MP
803 Front Street
Norfolk, VA 23510-1096

Re: Indefinite Delivery-Type Contract No. DACA01-94-D-0037-003
Scope Change Request - Revised

Dear Steve:

During the Interim Review Meeting at Walter Reed Army Medical Center (WRAMC) in March, we discussed additional analysis which the Base would like though not currently covered in our contractual scope of work. Several different items were identified by WRAMC personnel as helpful information in determining the feasibility of possible energy reduction measures. These opportunities were discussed as potential ways to reduce chilled water consumption in order to offset a portion of the current chiller plant shortfall.

The first group of opportunities include external and internal building system modifications which would target reduction in individual building cooling loads. Specific items to be evaluated are as follows:

- Replace existing single pane operable windows with new insulated glass windows. This evaluation will include Buildings 1, 7, 11, 40 and 41.
- Replace existing lighting with energy efficient light fixtures. This evaluation will include Buildings 1, 2, 7, 11, 40, 41, and 54.
- Reduce outside air quantities in buildings with uses that do not require once-through ventilation. This evaluation will include Buildings 1 and 40.
- Upgrade existing temperature controls with new automatic temperature controls to provide unoccupied setback. This evaluation will include Buildings 1, 7, 11, 40, and 41.



4 South Fourth Street
P.O. Box 32
Reading
Pennsylvania 19603

Office 610.373.6667

Fax 610.373.7537

Mr. Stephen J. Mlecik, P.E.
April 12, 1995
Page -02-

The second area of concentration is Building 2 - Heaton Pavilion. Specific operating problems with the hot water heating system have resulted in the necessity to set several preheat coils artificially high to avoid coil freeze up problems. This problem may be the result of an unbalanced water system. It was identified that final water system balancing was never done at the completion of construction in the late 1970's. This evaluation would evaluate possible energy savings as the direct result of balancing the reheat system in Building 2 and returning preheat coil discharge temperatures to their proper setpoint during winter operation.

In order to accomplish the aforementioned goals, Entech will provide the following services. Entech will perform a walkthrough of Buildings 1, 2, 7, 11, 40, 41 and 54 to verify general existing systems. This walkthrough will include discussions with WRAMC personnel to help in the clarification and operation of all systems being evaluated. The second step will be to run the EZDOE load simulation program for each of these buildings to calculate reduction in cooling loads to determine potential energy savings. Each of these evaluations will be prepared as individual alternatives and incorporated into the final report under the format currently established in the Interim submission.

In order to incorporate these additions to the scope of work, Entech proposes a contract increase of \$9,965.00. A detailed breakdown of this estimate follows on Attachment A. This work includes additional support for Applications for Funding (Form 1391) as identified in the original contract.

This additional scope can be incorporated into the study with no change to the current project schedule.

Should you have any questions, please call me.

Sincerely,



Edward L. Caulkins, P.E.
Project Manager

Enclosure

cc: William McMahon, Jr., P.E.

EEAP - CORPS OF ENGINEERING, U.S. ARMY

**WALTER REED MEDICAL CENTER – CHILLER STUDY – SCOPE CHANGE REQUEST
ENTECH MANHOURLY BREAKDOWN**

[illegible]

ATTACHMENT L

Government Review Comments



WALTER REED ARMY MEDICAL CENTER



FAX TRANSMITTAL SHEET

FROM: Regina Larrabee
DPW/Energy Engineer
WASHINGTON, DC 20307-5001

OFFICE SYMBOL

TELE. NUMBER

MCHL-PW

AUTO.
662-0315
COMM.
(202) 782-0315

TO: Ed Coulkins
ENTECH

610-373-6667

EID: ECH

COMMENTS:

Ed -

1. Enclosed are our comments regarding Preliminary (95%) submittal of EEAP Study.
2. Sorry for the delay.

Regina Larrabee

MEMORANDUM

FROM: Richard D. Lippy, Henry Adams, Inc.

TO: Mr. Abbas Keshavarz, Walter Reed Army Medical Center

DATE: September 21, 1995

PROJECT: CORPS OF ENGINEERS -
INDEFINITE DELIVERY CONTRACT -
WALTER REED ARMY MEDICAL CENTER
HAI-PROJECT NO. C018700

SUBJECT: Review of "Chilled Water Study EEAP Program" dated August 1995 by
ENTECH Engineering

At your request we have performed a review of referenced Report Books 1 and 2 that we received September 19, 1995. This review is very limited and comments provided may be addressed somewhere in the report or may not be in the scope of the EEAP Program.

1. **Page 1-3:** It is unfortunate the EEAP requirements did not allow evaluation of chiller capacity that provides capacity to meet at least the present peak-cooling load. With the development of present day chiller efficiencies and capacities additional capacity may be possible with the same quantity of chillers. It is difficult to determine how the chiller operation was modeled. Models should operate only the required chillers or chiller combinations operating at maximum efficiency for required load.

It is difficult to determine what energy value was used for base model for comparison with alternatives.

2. **Table 1.2**

Alternative No. 3 - Won't the upgrade of free cooling system have added maintenance cost. Added maintenance cost are indicated for Alternatives 6 and 7.

Alternative No. 5 - Shows same annual savings of maintenance cost as 1 and 4 to upgrade existing plants. No. 5 is a totally new plant and must have lower maintenance cost than upgraded plant.

Should the benefits of energy cost of No. 5 be compared to 1 and 4 for realistic comparison?

Alternative No. ⁵~~8~~. Why isn't there energy savings for off hours chiller operation at lower W.D. and D.B. for improved chiller efficiencies? Also lower rate schedule.

Alternative No. 11 - Do energy savings reflect higher reheat cost in building with constant volume i.e. labs. If air quantities aren't reduced reheat will increase to provide for heat from lights that are removed.

An alternative for ice storage should be more cost effective than chilled water storage. If partial storage is considered.

- a. Requires less storage volume.
- b. Chiller efficiency is higher when used to melt ice.
- c. Lower temperature and higher temperature differences can reduce primary system component sizes, and greatly reduce pumping costs.
- d. An ice storage system would provide the opportunity to use low-temperature supply air system.

3. Report does not seem to address benefits of central chiller plant (new or existing) to reduce operation of existing lower efficiency DX systems.

4. Page 3-6

While under date of this report ASHRAE Standard 15 for refrigeration systems was Standard 15-1992. ASHRAE Standard 15-1994 has now been adopted by ASHRAE. There are changes that have minor affect on report. For example only refrigerant leak sensors are required for all refrigerants. Oxygen sensors are not required.

- 5. It is not clear if new chillers are analyzed based on more than 10 deg F chilled water temperature rise with associated benefits of reduced GPM.
- 6. It is not clear if maintenance cost projections for existing chillers reflect current CFC cost of \$10 per pound. These costs will continue to increase. A chilled water or ice storage system will reduce refrigerant quantities.
- 7. Fuel oil usage based on deliveries does not show when fuel was actually used.
- 8. Page 5-9 Process loads and use of chilled water for condenser water is addressed but is never further evaluated. The low efficiency use of chilled water appears to be put back in under preheat coil temperature reset and may overstate preheat coil issue energy savings.

Rebalance may not correct freeze issue if maximum flows for 2 fps are not maintained. For 100% O.A. systems max. freeze potential occurs above design condition when flow through preheat coil is reduced. Maintain constant flow and vary water temperature. Also parallel flow puts hottest water at coolest air. If coils are counter flow lowest water temperature is at coldest air. Construction cost of \$30,000 may not address piping, pump and valving changes.

Should a process loop for buildings be evaluated?

9. Page 5-17 Address system shortfall of 3350 tons however report does not provide any suggested method to provide sufficient capacity.
10. Page 7-3 ASHRAE Standard 62-1989 does not simply allow for averaging number of people over entire building area with associated ventilation rate. The prescribed quantity of outdoor air must be maintained in each space.
11. Page 7-8 To allow space temperature of 85° when unoccupied may require more cooling to "pull down" to 75° ^{temp} benefit of setback. Often not properly considered by system models.

This report has a lot of useful data and with some additional analysis and consideration of some of the alternates there could be economic solutions to improve energy usage and increase capacity. However, EEAP guidelines may not provide for practical increase of capacity.

COMMENTS: 95% SUBMITTAL BEAP STUDY

1. I question whether or not Operation & Maintenance savings are accurately reflected in this analysis. As a minimum, aging equipment that is replaced by new equipment should breakdown less often. Also, without these equipment replacements, ultimate failure (and replacement) of the existing equipment is not far away.

2. Most of the Alternatives discussed do not seem to address one of the main issues --- the need to eliminate the individual building chillers, and reduce the costs for operating and maintaining this additional equipment scattered all over the post. One of the main goals of the proposal was to expand the centralized chilled water system. Expansion of the chilled water system to provide adequate capacity for all the buildings on Main Post must be part of the analysis. The current equipment configuration is not only inadequate, but cannot be maintained properly by our limited in-house staff.

1. I question whether or not Operation & Maintenance savings are accurately reflected in this analysis. As a minimum, aging equipment that is replaced by new equipment should breakdown less often. Also, without these equipment replacements, ultimate failure (and replacement) of the existing equipment is not far away.

Regina M Larrabee

Energy Conservation Engineer

2. Most of the Alternatives discussed do not seem to address one of the main issues --- the need to eliminate the individual building chillers, and reduce the costs for operating and maintaining this additional equipment scattered all over the post. One of the main goals of the proposal was to expand the centralized chilled water system. Expansion of the chilled water system to provide adequate capacity for all the buildings on Main Post must be part of the analysis. The current equipment configuration is not only inadequate, but cannot be maintained properly by our limited in-house staff.

AUTHORISED RELEASER / DATE: (MM/DD/YYYY)		PRIORITY:
CLASSIFICATION	NO. OF PAGES: (including cover) 5	FAX# COMM. (202) 782 - 8333 AUTOVON: 662 - 8333

WRAMC FORM 1247
1 June 90

away.

2. Most of the Alternatives discussed do not seem to address one of the main issues --- the need to eliminate the individual building chillers, and reduce the costs for operating and maintaining this additional equipment scattered all over the post. One of the main goals of the proposal was to expand the centralized chilled water system. Expansion of the chilled water system to provide adequate capacity for all the buildings on Main Post must be part of the analysis. The current equipment configuration is not only inadequate, but cannot be maintained properly by our limited in-house staff.

Regina M Larrabee
Energy Conservation Engineer

11-01-95 12:51PM FROM 2

P02

MOBILE DISTRICT PROJECT REVIEW COMMENTS:		DATE: 13 Sept 1995	Page 1 of 1
TO: U.S. Army Corps of Engr. Norfolk District Norfolk, Virginia		FROM: Robert S. Woodruff, CERSAM-EN-DM Phone: (334) 694-6074 FAX: (334) 690-2424	
PROJECT/FY: Walter Reed Army Medical Center Chilled Water Study			
LOCATION: Washington, D. C.			
TYPE REVIEW: Pre-Final			
NO.	Page/Par	COMMENT	Response to Comment
1.	Page 1-6	Alternative 13 should be recommended for approval if it meets the ECIP requirements.	
2.	Page 3-6	The total chilled water production capacity listed is different than that listed on page 1-3.	
3.	Page 3-18	The year to year differences in the Contractual Maintenance amounts are very large. Is there a reason for those large differences?	
4.	Page 4-12	The amount of fuel oil used in the fall and spring differs greatly in these two yearly time periods. Is there a reason for this?	
5.	Page 5-6 and Page 5-8.	There must be very large process loads in the served facilities to cause the large difference between the calculated loads and chiller log data.	
6.	Page 5-17	The capacity shortfall is almost 30% of the total capacity. Please elaborate on how this significant shortfall is handled.	
7.	Page 6-8	Do the numerous air-cooled DX cooling units have a large effect on the electrical demand? Please elaborate on handling this load with the central chilled water system or some other more energy efficient means.	
8.	Page 7-3	Alternative No. 8 is based on reducing the amount of outside air. The volume of outside air shown is an estimate. This volume needs to be more accurately measured.	
9.	Page 7-4	Is it possible to estimate the cost of return air systems in order to run an economic analysis for this alternative?	
10.	Page 7-29	The cost estimates in this alternative appear to be off by a factor of 10. Windows do not cost \$47.50 per square foot.	

FWD TO:
ED-CAULKINS

Response to Review Comments

Walter Reed Army Medical Center Chilled Water Study DACA01-94-D-0037

1. CESAM-EN-DM

Reviewer: Robert S. Woodruff

Item #1 **Section 10, Page 10-6 —**

Comment: Alternative No. 13 should be recommend for approval if it meets the ECIP requirements.

Response: Section 10, Page 10-6, Paragraph 10.3 explains reasoning for not recommending the Cogeneration Alternative. The scope of the study is for the Central Chilled Water Plant only. In order to prepare the Cogeneration ECO, assumptions regarding the Central Plant heating were made. The results of this Alternative suggest that further investigation of Cogeneration is warranted. However, due to the limited scope of this study, pursuing appropriation for this Alternative would be premature.

Item #2 **Section 3, Page 3-6 —**

Comment: The total chilled water production capacity listed is different than that listed on Page 1-3.

Response: Page 3-6 has been revised.

Item #3 **Section 3, Page 3-18 —**

Comment: The year to year differences in the Contractual Maintenance amounts are very large. Is there a reason for those large differences?

Response: Data is based on actual data cost sheets for Contractual Maintenance Services, furnished by WRAMC. Looking at this data, it appears that WRAMC had some major repair work done on specific chillers in 1992 and again in 1994. Fiscal year 1993 indicates more mundane contract repairs were conducted. Reference Attachment J in Book 2 of 2.

Item #4 Section 4, Page 4-12 —

Comment: The amount of fuel oil used in the Fall and Spring differs greatly in those two yearly time periods. Is there a reason for this?

Response: Differences in fuel oil consumption reflect natural gas interruptions due to the severe Winter of 1994.

Item #5 Section 5, Pages 5-6 and 5-8 —

Comment: There must be very large process loads in the served facilities to cause the large difference between the calculated loads and chiller log data.

Response: Entech concurs with the statement as described on Page 5-9.

Item #6 Section 5, Page 5-17 —

Comment: The capacity shortfall is almost 30% of the total capacity. Please elaborate on how this significant shortfall is handled.

Response: Section 6, Page 6-3 - Paragraph 6.2.2, provides information on chilled water deficiencies.

Item #7 Section 6, Page 6-8 —

Comment: Do the numerous air-cooled DX cooling units have a large effect on the electrical demand? Please elaborate on handling this load with the central chilled water system or some other more energy efficient means.

Response: Existing Chilled Water Plant's total — 9,840 tons. We believe that the numerous DX units amount to less than 5% of all site cooling capabilities, which has no significant effect on demand. The scope did not include quantifying or analyzing individual air-cooled DX units. Therefore, sufficient data is not available to elaborate on handling these loads with the central chilled water system or other energy-efficient means.

Item #8 Section 7, Page 7-3 —

Comment: Alternative No. 8 is based on reducing the amount of outside air. The volume of outside air shown is an estimate. This volume needs to be more accurately measured.

Response: Entech agrees with the basis of this statement, however, the only more accurate means to quantify outside air quantities is to actually measure these quantities. Existing testing and balancing reports were not available, and performing an actual balance is beyond the scope of this study.

Item #9 Section 7, Page 7-4 —

Comment: Is it possible to estimate the cost of return air systems in order to run an economic analysis for this Alternative?

Response: Individual building HVAC system evaluations are not within the scope of this study. Therefore, development of cost estimates for return air systems is not included.

Item #10 Section 7, Page 7-29 —

Comment: The cost estimate in this Alternative appears to be off by a factor of 10. Windows do not cost \$47.50 per square foot.

Response: Means Building Construction Cost Data indicates windows cost approximately \$40/sf for stock windows. Most windows for these buildings are not stock sizes, and therefore, we would not expect the cost to be less than the \$47.50/sf of window estimated.

2. Reviewer: Richard D. Lippy
Henry Adams, Inc.

Item #1 Section 1, Page 1-3 —

Comment: It is unfortunate the EEAP requirements did not allow evaluation of chiller capacity that provides capacity to meet at least the present peak-cooling load. With the development of present day chiller efficiencies and capacities, additional capacity may be possible with the same quantity of chillers. It is difficult to determine how the chiller operations was modeled. Models should operate only the required chillers or chiller combination, operating at maximum efficiency for required load.

It is difficult to determine what energy value was used for base model for comparison with Alternatives.

Response: Chillers were modeled to reflect current operating practices as stated in Section 5.0. Alternative baseline energy costs only reflect the components which are addressed within that Alternative.

Item #2 Section 1, Table 1.2 —

Comment: Alternative No. 3 — Won't the upgrade of free cooling system have added maintenance cost? Added maintenance cost are indicated for Alternatives No. 6 and 7.

Response: Operation of the free cooling system reduces operation of the central chillers. This, in turn, lowers maintenance for the chillers subsequently off-setting any increase from the free cooling system operation.

Comment: Alternative No. 5 — Shows same annual savings of maintenance cost as Alternatives No. 1 and 4 to upgrade existing plants. Alternative No. 5 is a totally new plant and must have lower maintenance cost than upgraded plant.

Response: Entech agrees; however, the stated maintenance costs for all options including existing installation, are based on chiller-specific maintenance costs only. It should be noted that additional maintenance savings will not effect the economics of this Alternative. The construction cost for this Alternative greatly outweighs any additional maintenance savings benefit. Refer to Comment No. 2 from Regina Larrabee.

Comment: Should the benefits of energy cost of Alternative No. 5 be compared to Alternatives No. 1 and 4 for realistic comparison?

Response: Based on our interpretation of the comment, we believe that the evaluation of each of these Alternatives must be compared against the existing condition. Resulting payback and SIR values will determine the feasibility with each Alternative.

Comment: Alternative No. 5 — Why isn't there energy savings for off-hour chiller operation at lower W.B. and D.B. for improved chiller efficiencies? Also a lower rate schedule.

Response: Section 6, Page 6-51, displays proposed operation of the Chilled Water Plant. The DOE Program incorporates weather data conditions in load and energy calculations.

Comment: Alternative No. 11 — Do energy savings reflect higher reheat cost in building with constant volume, i.e., labs? If air quantities aren't reduced, reheat will increase to provide for heat from lights that are removed.

Response: The DOE Program takes this into account as shown on Table 7.5.4.1 on Page 7-23.

Comment: An Alternative for ice storage should be more cost effective than chilled water storage. If partial storage is considered,

- A. Requires less storage volume.
- B. Chiller efficiency is higher when used to melt ice.
- C. Lower temperature and higher temperature differences can reduce primary system component sizes and greatly reduce pumping costs.

- D. An ice storage system would provide the opportunity to use low-temperature supply air system.

Response:

- A. Entech concurs that an equivalent size ice storage system is physically smaller than a chilled water storage system due to the increased latent heat of fusion of ice during its phase change to water.
- B. Chiller efficiency is higher when used to melt ice. Chiller efficiency is also lower when generating ice at reduced temperatures with a brine solution.
- C. It is true that use of lower-temperature chilled water allows for higher operation temperature differences and consequently lower primary water flows. However, the existing HVAC systems on the Post are not designed to operate with lower flow, higher differential temperature chilled water. This type of system can be used; however, system modifications throughout the Post must be made to accommodate its use. These modifications will result in additional capital and maintenance costs to be incorporated into the Life-Cycle Cost Analysis.
- D. Entech concurs that an ice storage system does provide the opportunity to use low-temperature supply air systems. However, these systems do not exist on the Post at the present time, and therefore were not considered as part of this study. While renovations could be designed in the future to accommodate low-temperature supply air systems, the entire chilled water system would need to be designed to accommodate this change. This change would increase capital cost for the storage system and the downstream HVAC systems in all connected buildings on the Post.

Item #3

Comment: Report does not seem to address benefits of Central Chiller Plant (new or existing) to reduce operations of existing low efficiency DX systems.

Response: Refer to Robert S. Woodruff review comments, Item #7 of this report.

Item #4 Section 3, Page 3-6 —

Comment: While under date of this report, ASHRAE Standard 15 for refrigeration systems was Standard 15-1992. ASHRAE Standard 15-1994 has now been adopted by ASHRAE. There are changes that have minor affect on report. For example, only refrigerant leak sensors are required for all refrigerants. Oxygen sensors are not required.

Response: Difference is acknowledged. The cost difference between oxygen and refrigerant sensors is insignificant when compared to the overall construction cost of the Alternative.

Item #5

Comment: It is not clear if new chillers are analyzed based on more than 10°F chilled water temperature rise with associated benefits of reduced GPM.

Response: Existing chiller plants, with the exception of Building 49, were designed for a 10°F temperature rise as were the existing building cooling systems. The operating temperature differential was not changed for this evaluation. A change in system operating temperature could be considered but may require existing equipment modification which would increase construction costs and offset additional potential energy savings via reduced pumping horsepower.

Item #6

Comment: It is not clear if maintenance cost projections for existing chillers reflect current CFC cost of \$10 per pound. These costs will continue to increase. A chilled water or ice storage system will reduce refrigerant quantities.

Response: Maintenance costs specifically for CFC replacement in existing chillers is not identified. The replacement of individual chillers meets the criteria of payback and SIR regardless of the CFC costs. In Alternatives evaluating the construction of new Chiller Plants, the net effect of CFC replacement costs does not have any appreciable effect on the payback or SIR values. At the time of the study, there is no known quantity of CFC replacement which has been logged on the site.

Item #7

Comment: Fuel oil usage, based on deliveries, does not show when fuel was actually used.

Response: Fuel oil usage data does not affect this study, since this study evaluates the chilled water systems and not the central heating system.

Item #8

Section 5, Page 5-9 —

Comment: Process loads and use of chilled water for condenser water is addressed but is never further evaluated. The low efficiency use of chilled water appears to be put back in under preheat coil temperature reset and may overstate preheat coil issue energy savings.

Rebalance may not correct freeze issue if maximum flows for 2 fps are not maintained. For 100% O.A. systems, maximum freeze potential occurs above design condition when flow through preheat coil is reduced. Maintain constant flow and vary water temperature. Also, parallel flow puts hottest water at coolest air. If coils are counter flow, lowest water temperature is coolest air. Construction cost of \$30,000 may not address piping, pump, and valving changes.

Should a process loop for buildings be evaluated?

Response: DOE was rerun using data provided on Page 7-18. This data was provided by WRAMC. The revised DOE results closely resembled actual chiller log data, which in turn, substantiates the statements on Page 5-9.

Freeze protection for preheat coils is a reasonable concern. If the original system design is inadequate to provide freeze protection, additional system modifications would be required to protect these coils. The estimated \$30,000 construction cost only covers balancing and adjustment, and does not cover physical changes to equipment and piping design deficiencies.

The addition of a process cooling loop may have some merit; however, this is not part of the scope of this study as it goes into internal building system's design.

Item #9 Section 5, Page 5-17 —

Comment: Address system shortfall of 3350 tons, however, report does not provide any suggested method to provide sufficient capacity.

Response: Section 6, Page 6-2, Paragraph 6.1.1 and Section 1, Page 1-3 state that cooling shortfall solutions will not be addressed nor were they part of the scope.

Item #10 Section 7, Page 7-3 —

Comment: ASHRAE Standard 62-1989 does not simply allow for averaging number of people over entire building area with associated ventilation rate. The prescribed quantity of outdoor air must be maintained in each space.

Response: Detailed evaluation of internal HVAC systems is beyond the scope of this study.

Item #11 Section 7, Page 7-8 —

Comment: To allow space temperature of 85°F, when unoccupied, may require more cooling to "pull down" to 75°F from benefit of setback. Often not properly considered by system models.

Response: The DOE software utilized, operates on an hourly calculation method and does take "pull down" loads into account. Simulations were performed at 80°F and 85°F setbacks in which the latter provided the most savings.

3. MCHL-PW

Reviewer: Regina Larrabee
DPW/Energy Engineer

General Comments —

Item #1 I question whether or not operation and maintenance savings are accurately reflected in this analysis. As a minimum, aging equipment that is replaced by new equipment should breakdown less often. Also, without these equipment replacements, ultimate failure (and replacement) of the existing equipment is not far away.

Response: Existing operation and maintenance savings are based on data received from WRAMC. These costs were reviewed to determine the total cost related to equipment evaluated in the study. Where equipment is replaced, maintenance costs were reduced by 67%. We agree that the operation cost was not reduced. In Alternative No. 5, which proposes a new Chilled Water Plant, we ran a new LCCID with the current operations cost reduced by 50%. The attached results indicate that there is no significant change in SIR or payback.

Alternate No. 5 —

Current Study —

Simple Payback	=	31.30 years
SIR	=	0.50

Revised LCCID —

Simple Payback	=	27.68 years
SIR	=	0.56

Item #2

Most of the Alternatives discussed do not seem to address one of the main issues — the need to eliminate the individual building chillers and reduce the cost for operating and maintaining this additional equipment scattered all over the Post. One of the main goals of the proposal was to expand the centralized chilled water system. Expansion of the chilled water system to provide adequate capacity for all the buildings on Main Post must be part of the analysis. The current equipment configuration is not only inadequate, but cannot be maintained properly by our limited in-house staff.

Response: The desire for an expanded or replacement, centralized Chilled Water Plant is understood by all persons affiliated with this study. This study points out and identifies the known shortages in the current Chilled Water Plants. We also understand the strain which the Main Post experiences in order to keep these numerous systems and components operating. However, the study is subject to the rules and regulation of the EEAP Program. We cannot evaluate existing capacity directly against required capacity. Under the requirements of this study, all recommended Alternatives must meet specified payback and SIR standards. By expanding the plant size to accommodate known shortages, we are negatively impacting the evaluation standards by which each Alternative is measured. Alternatives which propose new Chilled Water Plants are evaluated as equal capacity to the present system. However, the schematic development of these options has been done in a manner which allows for modular growth to accommodate known shortages.

Entech agrees that a new Central Plant would dramatically improve WRAMC's operations, maintenance, and controllability. Unfortunately, a new Chilled Water Plant of this magnitude cannot be financed solely on energy and maintenance savings. The overall cost is too high in comparison with energy saved as identified in Alternatives No. 4 and 5. There are numerous other reasons for a new Central Plant, but these reasons do not fall under the criteria of the EEAP Program.

END OF RESPONSE

LIFE CYCLE COST ANALYSIS SUMMARY

STUDY: WALTER1

LCCID FY95 (92)

ENERGY CONSERVATION INVESTMENT PROGRAM (ECIP)

INSTALLATION & LOCATION: REGION NOS. 3 CENSUS: 3

PROJECT NO. & TITLE:

FISCAL YEAR DISCRETE PORTION NAME: ALT#5

ANALYSIS DATE: 02-14-96 ECONOMIC LIFE 20 YEARS PREPARED BY:

1. INVESTMENT

A. CONSTRUCTION COST	\$ 17000000.	
B. SIOH	\$ 900000.	
C. DESIGN COST	\$ 1000000.	
D. TOTAL COST (1A+1B+1C)	\$ 18900000.	
E. SALVAGE VALUE OF EXISTING EQUIPMENT	\$	0.
F. PUBLIC UTILITY COMPANY REBATE	\$	0.
G. TOTAL INVESTMENT (1D - 1E - 1F)		\$ 18900000.

2. ENERGY SAVINGS (+) / COST (-)

DATE OF NISTIR 85-3273-X USED FOR DISCOUNT FACTORS OCT 1993

FUEL	UNIT COST \$/MBTU(1)	SAVINGS MBTU/YR(2)	ANNUAL \$ SAVINGS(3)	DISCOUNT FACTOR(4)	DISCOUNTED SAVINGS(5)
A. ELECT	\$ 18.92	27636.	\$ 522873.	15.61	\$ 8162050.
B. DIST	\$.00	0.	\$ 0.	17.56	\$ 0.
C. RESID	\$.00	0.	\$ 0.	19.97	\$ 0.
D. NAT G	\$ 3.67	-999.	\$ -3666.	20.96	\$ -76846.
E. COAL	\$.00	0.	\$ 0.	17.58	\$ 0.
F. LPG	\$.00	0.	\$ 0.	16.12	\$ 0.
M. DEMAND SAVINGS			\$ 0.	14.74	\$ 0.
N. TOTAL		26637.	\$ 519207.		\$ 8085203.

3. NON ENERGY SAVINGS(+) / COST(-)

A. ANNUAL RECURRING (+/-)		\$ 163500.
(1) DISCOUNT FACTOR (TABLE A)	14.74	
(2) DISCOUNTED SAVING/COST (3A X 3A1)		\$ 2409990.

B. NON RECURRING SAVINGS(+) / COSTS(-)

ITEM	SAVINGS(+) COST(-) (1)	YR OC (2)	DISCNT FACTR (3)	DISCOUNTED SAVINGS(+) COST(-) (4)
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d. TOTAL	\$ 0.			0.
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C. TOTAL NON ENERGY DISCOUNTED SAVINGS(+)/COST(-) (3A2+3Bd4) \$ 2409990.

4. FIRST YEAR DOLLAR SAVINGS $2N3+3A+(3Bd1/(YRS\ ECONOMIC\ LIFE))$ \$ 682707.

5. SIMPLE PAYBACK PERIOD (1G/4) 27.68 YEARS

6. TOTAL NET DISCOUNTED SAVINGS (2N5+3C) \$ 10495190.

7. SAVINGS TO INVESTMENT RATIO (SIR) = $(6 / 1G) =$.56
(IF < 1 PROJECT DOES NOT QUALIFY)

8. ADJUSTED INTERNAL RATE OF RETURN (AIRR): .11 %